

Nevada
Environmental
Restoration
Project

DOE/NV--1110



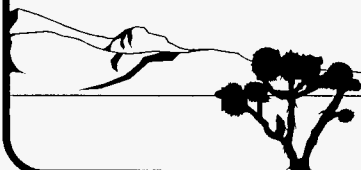
Post-Closure Inspection Report for
Corrective Action Unit 92:
Area 6 Decon Pond Facility,
Nevada Test Site, Nevada
For Calendar Year 2005

Controlled Copy No.: _____

Revision: 0

March 2006

Environmental Restoration
Division



U.S. Department of Energy
National Nuclear Security Administration
Nevada Site Office

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**POST-CLOSURE INSPECTION REPORT FOR
CORRECTIVE ACTION UNIT 92:
AREA 6 DECON POND FACILITY,
NEVADA TEST SITE, NEVADA

FOR CALENDAR YEAR 2005**

**U.S. Department of Energy
National Nuclear Security Administration
Nevada Site Office
Las Vegas, Nevada**

**Controlled Copy No. ____
Revision: 0
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**POST-CLOSURE INSPECTION REPORT FOR
CORRECTIVE ACTION UNIT 92:
AREA 6 DECON POND FACILITY,
NEVADA TEST SITE, NEVADA

FOR CALENDAR YEAR 2005**

Approved By: Peter A. Sudner for
Sabine T. Curtis
Acting Federal Sub-Project Director
Environmental Restoration Project

Date: 03/08/2006

Approved By: Janet L. Appenzeller-Wing
Janet L. Appenzeller-Wing
Federal Project Director
Environmental Restoration Project

Date: 3/8/06

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TABLE OF CONTENTS

ACRONYMS AND ABBREVIATIONS	vii
EXECUTIVE SUMMARY	ix
1.0 INTRODUCTION	1
1.1 SCOPE AND OBJECTIVES	1
1.2 SITE HISTORY	1
2.0 REGULATORY CRITERIA	5
3.0 SITE INSPECTION RESULTS	7
3.1 QUARTERLY INSPECTION RESULTS	7
3.1.1 First Quarter	7
3.1.2 Second Quarter.....	7
3.1.3 Third Quarter	7
3.1.4 Fourth Quarter.....	7
3.2 PRECIPITATION-TRIGGERED INSPECTION RESULTS	8
4.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS.....	9
4.1 SUMMARY AND CONCLUSIONS.....	9
4.2 RECOMMENDATIONS.....	9
5.0 REFERENCES	11

FIGURES

FIGURE 1: LOCATION OF CAU 92, AREA 6 DECON POND FACILITY	2
--	---

TABLES

TABLE 1: CHRONOLOGY OF THE AREA 6 DECON POND FACILITY	4
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APPENDICES

APPENDIX A: INSPECTION CHECKLISTS AND FIELD NOTES

APPENDIX B: PHOTOGRAPHS

APPENDIX C: PRECIPITATION RECORDS

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ACRONYMS AND ABBREVIATIONS

CAS	Corrective Action Site
CAU	Corrective Action Unit
CFR	Code of Federal Regulations
cm	centimeter(s)
DOE/NV	U.S. Department of Energy, Nevada Operations Office (used prior to April 2001)
EPA	U.S. Environmental Protection Agency
FFACO	Federal Facility Agreement and Consent Order
ft	foot (feet)
in	inch(es)
m	meter(s)
NDEP	Nevada Division of Environmental Protection
NNSA/NSO	U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office
RCRA	Resource Conservation and Recovery Act

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EXECUTIVE SUMMARY

This Post-Closure Inspection Report provides an analysis and summary of inspections for Corrective Action Unit (CAU) 92, Area 6 Decon Pond Facility, Nevada Test Site, Nevada. CAU 92 was closed in accordance with the Resource Conservation and Recovery Act (RCRA) Part B Operational Permit (Nevada Division of Environmental Protection (NDEP), 1995) and the Federal Facility Agreement and Consent Order of 1996. Closure activities were completed on February 16, 1999, and the Closure Report (U.S. Department of Energy, Nevada Operations Office, 1999) was approved and a Notice of Completion issued by the NDEP on May 11, 1999.

CAU 92 consists of two Corrective Action Sites (CASs): CAS 06-04-01, Decon Pad Oil/Water Separator; and CAS 06-05-02, Decontamination Pond (RCRA). Both CASs have use restrictions; however, only CAS 06-05-02 requires post-closure inspections.

Visual inspections of the cover and fencing at CAS 06-05-02 are performed quarterly. Additional inspections are conducted if precipitation occurs in excess of 1.28 centimeters (cm) (0.50 inches [in]) in a 24-hour period. This report covers calendar year 2005.

Quarterly site inspections were performed in March, June, September, and December of 2005. All observations indicated the continued integrity of the unit. No issues or concerns were noted, and no corrective actions were necessary. Copies of the inspection checklists and field notes completed during each inspection are included in Appendix A.

Five additional inspections were performed after precipitation events that exceeded 1.28 cm (0.50 in) within a 24-hour period during 2005. No significant changes in site conditions were noted during these inspections, and no corrective actions were necessary. Copies of the inspection checklists and field notes completed during each inspection are included in Appendix A. Precipitation records for 2005 are included in Appendix C.

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1.0 INTRODUCTION

1.1 SCOPE AND OBJECTIVES

Corrective Action Unit (CAU) 92, Area 6 Decon Pond Facility, is located in Area 6 of the Nevada Test Site, Nevada, adjacent to the Decontamination Facility along the southern portion of the Yucca Lake Dry Playa (Figure 1). CAU 92 is identified in the Federal Facility Agreement and Consent Order (FFACO) of 1996 and was closed in accordance with the Resource Conservation and Recovery Act (RCRA) Part B Operational Permit (Nevada Division of Environmental Protection [NDEP], 1995). CAU 92 consists of two Corrective Action Sites (CASs): CAS 06-04-01, Decon Pad Oil/Water Separator; and CAS 06-05-02, Decontamination Pond (RCRA). This report provides an analysis and summary of the quarterly site inspections performed at CAU 92 during calendar year 2005.

1.2 SITE HISTORY

The Area 6 Decon Pond Facility was constructed and became operational in 1979. It was approximately 60 meters (m) (200 feet [ft]) long on each interior side, with perimeter berms 1.5 m (5 ft) above the surrounding grade. A discharge pipe from the Decon Pad Oil/Water Separator (CAS 06-04-01) entered the Decontamination Pond (CAS 06-05-02) on the southwest side, approximately 0.3 m (1 ft) above the base of the pond. The Decontamination Pond was unlined and was surrounded by an earthen berm on all four sides with a two-to-one grade (U.S. Department of Energy, Nevada Operations Office [DOE/NV], 1996).

The Decon Pond Facility was used for the disposal of partially treated liquid effluent discharged from Buildings 6-605 (Decontamination Facility) and 6-607 (Industrial Laundry). Effluent from Buildings 6-605 and 6-607 was piped into the Decontamination Pad Oil/Water Separator and then to the Decontamination Pond where it was allowed to evaporate.

Radioactively contaminated site worker clothing (e.g., coveralls, gloves, and boot covers) was processed in the laundry in Building 6-607. The laundry process used standard industrial water softeners and laundry detergents to decontaminate the personal protective equipment. Heavy equipment and critical tolerance equipment used in weapons testing were processed in Building 6-605 to remove radioactive contamination. This equipment was treated using degreasers, caustic or acid solutions, and detergents and then washed with pressurized hot water. The wash water was collected in floor drains and piped through a sand filter. This partially treated water also fed into the Decon Pad Oil/Water Separator and then discharged into the Decontamination Pond.

Suspected RCRA regulated hazardous waste or hazardous waste constituents released into the Decontamination Pond included degreasing solvents associated with equipment decontamination activities (chlorobenzene and 1,1,1-trichloroethane), petroleum hydrocarbon constituents (xylenes), and heavy metals (lead and arsenic). Releases of RCRA-regulated hazardous waste or hazardous waste constituents have not been discharged to the Decontamination Pond since 1988 (DOE/NV, 1996). The following radionuclides were detected: cobalt-60, cesium-137, plutonium-238, and tritium. A detailed discussion of the unit activities and analytical results can be found in the CAU 92 Characterization Report (DOE/NV, 1997a).

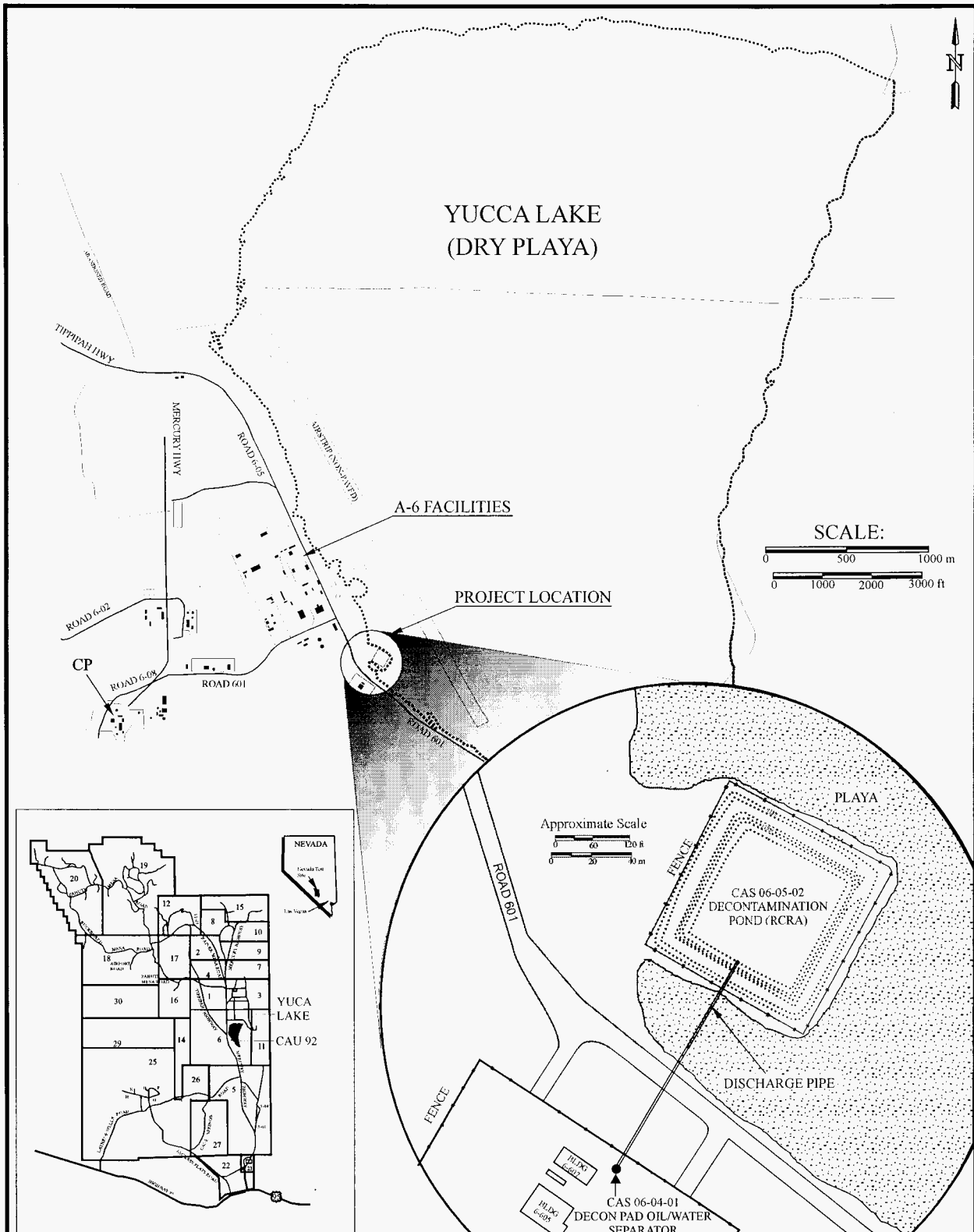


FIGURE 1
LOCATION OF CAU 92, AREA 6 DECON POND FACILITY

CAS 06-05-02, Decontamination Pond (RCRA), was closed by constructing an engineered cover (DOE/NV, 1999). The earthen berms were pushed into the pond and compacted. Additional materials were imported to form subsequent layers and compacted to meet specifications. The final layers consist of a bedding layer, geosynthetic clay liner, buffer layer, and erosion control layer. The cover was designed to meet or exceed all requirements specified in 40 Code of Federal Regulations (CFR) §265.228(a)(2) (U.S. Environmental Protection Agency [EPA], 1996). Monuments were placed on the cover to monitor subsidence, and a chain-link fence surrounds the cover to limit access. CAS 06-04-01, Decon Pad Oil/Water Separator, was closed by backfilling with grout.

All closure activities performed at CAU 92 were completed on February 16, 1999. The Closure Report (DOE/NV, 1999) was approved and a Notice of Completion for CAU 92 was issued by the NDEP on May 11, 1999. Table 1 summarizes the chronology of significant events over the life span of the facility.

TABLE 1: CHRONOLOGY OF THE AREA 6 DECON POND FACILITY

DATE	SIGNIFICANT EVENTS
1979	The Decontamination Pond was constructed and became operational.
1979 - 1988	The facility received partially treated liquid effluents from Building 6-605 (Decontamination Facility) and Building 6-607 (Industrial Laundry) prior to the implementation of administrative controls on the use of RCRA regulated materials.
1990	A clay discharge pipe from Building 6-605 was broken during a trenching operation. An unknown amount of effluent was released to the subsurface soil.
1991	On March 3, the northwest side of the earthen berm was reportedly breached due to an intense rainstorm and high winds with effluent spilling onto the Yucca Lake Playa.
1992	The Decontamination Pond was removed from service and all known access lines were plugged and re-routed to aboveground tanks.
1996	Closure activities began with the submission and approval of the <u>Resource Conservation and Recovery Act Industrial Site Environmental Restoration Site Characterization Plan Area 6 Decontamination Pond Facility</u> (DOE/NV, 1996).
1997	A characterization program to obtain samples for radiological, chemical, and geotechnical parameters was conducted from May to June.
	The <u>Resource Conservation and Recovery Act Industrial Site Environmental Restoration Site Characterization Report, Area 6 Decontamination Pond Facility, Corrective Action Unit No. 92</u> (DOE/NV, 1997a) was issued.
	The <u>Resource Conservation and Recovery Act Corrective Measures Study, Area 6 Decontamination Pond Facility, Corrective Action Unit No. 92</u> (DOE/NV, 1997b) was issued.
1998	The <u>Closure Plan for Corrective Action Unit 92: Area 6 Decontamination Pond, Nevada Test Site, Nevada</u> (DOE/NV, 1998) was issued.
	Closure activities began on July 30.
1999	Closure activities were completed on February 16.
	The <u>Closure Report for Corrective Action Unit 92: Area 6 Decontamination Pond, Nevada Test Site, Nevada</u> (DOE/NV, 1999) was issued.
	The Closure Report was approved and a Notice of Completion issued by NDEP on May 11.
	Quarterly inspections began in March.

2.0 REGULATORY CRITERIA

Post-closure inspections of CAU 92, Area 6 Decon Pond Facility, are required under 40 CFR §265.116 through §265.120 (EPA, 1996). The post-closure requirements for the cover are specified in Section VII.B.5 of the RCRA Part B Permit NEV HW0021 (NDEP, 2005).

Inspections are conducted quarterly. Additional inspections are conducted if precipitation occurs in excess of 1.28 centimeters (cm) (0.50 inches [in]) in a 24-hour period. Post-closure inspections consist of and adhere to the following:

- During each inspection, the cover and fencing are inspected. The perimeter of the site is walked by the inspector, and the condition of the wave barrier (fiberglass slats laced through the bottom of the chain-link fencing), warning signs, entrance gate, and lock is documented. The reason for the inspection (i.e., quarterly or precipitation event) is noted on the inspection checklist.
- During each inspection, any changes in the condition of the cover or fenced area are documented. Specific changes noted on the current condition of the cover include, but are not limited to, trash and debris within the fenced area, vegetation growing on the cover, animal burrows/nesting activity, or erosion of the cover.
- Small cracks or settling depressions (less than 5 cm [2 in] deep) are documented, and any necessary cover repair is scheduled on an annual basis. Larger disruptions of the cover are immediately reported to the NDEP and evaluated and remedied within 60 days of discovery.
- All repair work preserves the original RCRA cover “as-built” design. If the cover repair requires modification to the RCRA cover design, the U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office (NNSA/NSO) presents a formal design modification request to NDEP prior to making the design modification.

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3.0 SITE INSPECTION RESULTS

Quarterly post-closure inspections of CAU 92 for calendar year 2005 were conducted on March 21, June 21, September 27, and December 12, 2005. Five precipitation-triggered inspections were performed. Copies of the inspection checklists and field notes are included in Appendix A. Site photographs are included in Appendix B.

3.1 QUARTERLY INSPECTION RESULTS

3.1.1 First Quarter

The first quarter inspection was conducted on March 21, 2005. The inspection indicated that the unit was in excellent condition. The fence had been repaired since the previous inspection. No issues were identified with the fence, signs, monuments, or cover.

All observations indicated the continued integrity of the unit, and no actions were necessary.

3.1.2 Second Quarter

The second quarter inspection was conducted on June 21, 2005. The inspection indicated that the unit was in excellent condition. No issues were identified with the fence, signs, monuments, or cover.

All observations indicated the continued integrity of the unit, and no actions were necessary.

3.1.3 Third Quarter

The third quarter inspection was conducted on September 27, 2005. The inspection indicated that the unit was in excellent condition. No issues were identified with the fence, signs, monuments, or cover. Some minor vegetation growing on the edge of the cover was noted.

All observations indicated the continued integrity of the unit; however, as a best management practice, it was recommended to remove the vegetation that was growing on the edge of the cover.

3.1.4 Fourth Quarter

The fourth quarter inspection was conducted on December 12, 2005. The inspection indicated that the unit was in excellent condition. No issues were identified with the fence, signs, monuments, or cover. Vegetation growing on the edge of the cover had been removed as a best management practice since the previous inspection.

All observations indicated the continued integrity of the unit, and no actions were necessary.

3.2 PRECIPITATION-TRIGGERED INSPECTION RESULTS

Five inspections were performed following precipitation events that exceeded 1.28 cm (0.50 in) within a 24-hour period during 2005. Precipitation records for 2005 are included in Appendix C:

- A precipitation event measured at 1.55 cm (0.61 in) occurred on January 2-3, 2005. An inspection was performed on January 10, 2005. No issues relating to the weather event were noted. The fence on the northwest side of the unit was still in need of repair since the previous inspection.
- A precipitation event measured at 1.32 cm (0.52 in) occurred on January 26-27, 2005. An inspection was performed on January 27, 2005. The fence had been repaired and was in good condition. No issues or concerns were noted.
- A precipitation event measured at 1.32 cm (0.52 in) occurred on February 18, 2005, and a precipitation event measured at 1.68 cm (0.66 in) occurred on February 21, 2005. An inspection was performed on February 23, 2005. No issues or concerns were noted.
- A precipitation event measured at 1.47 cm (0.58 in) occurred on July 28, 2005. An inspection was performed on August 3, 2005. No issues or concerns were noted.
- A precipitation event measured at 1.35 cm (0.53 in) occurred on October 17-18, 2005. An inspection was performed on October 20, 2005. No issues or concerns were noted.

4.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

4.1 SUMMARY AND CONCLUSIONS

The post-closure inspections conducted in 2005 have demonstrated the continued integrity of the cover, fencing, warning signs, and use restriction. No further maintenance or repairs are needed.

4.2 RECOMMENDATIONS

Continue post-closure inspections as scheduled.

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5.0 REFERENCES

DOE/NV, see U.S. Department of Energy, Nevada Operations Office.

EPA, see U.S. Environmental Protection Agency.

FFACO, see Federal Facility and Consent Order.

Federal Facility Agreement and Consent Order. 1996 (as amended). Agreed to by the state of Nevada, U.S. Department of Energy, and U.S. Department of Defense.

NDEP, see Nevada Division of Environmental Protection.

Nevada Division of Environmental Protection. 1995. Nevada Division of Environmental Protection Permit for a Hazardous Waste Management Facility, Permit Number NEV HW009, Carson City, NV.

Nevada Division of Environmental Protection. 2005. Nevada Division of Environmental Protection Permit for a Hazardous Waste Management Facility, Permit Number NEV HW0021, Carson City, NV.

U.S. Department of Energy, Nevada Operations Office. 1996. Resource Conservation and Recovery Act Industrial Site Environmental Restoration Site Characterization Plan Area 6 Decontamination Pond Facility, Revision 1, DOE/NV--438. Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office. 1997a. Resource Conservation and Recovery Act Industrial Site Environmental Restoration Site Environmental Restoration Site Characterization Report, Area 6 Decontamination Pond Facility, Corrective Action Unit No. 92, Revision 1, DOE/NV--470. Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office. 1997b. Resource Conservation and Recovery Act Corrective Measures Study, Area 6 Decontamination Pond Facility, Corrective Action Unit No. 92, DOE/NV--493. Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office. 1998. Closure Plan for Corrective Action Unit 92: Area 6 Decontamination Pond, Nevada Test Site, Nevada, Revision 2, DOE/NV/11718--256-Rev 2. Las Vegas, NV.

U.S. Department of Energy, Nevada Operations Office. 1999. Closure Report for Corrective Action Unit 92: Area 6 Decontamination Pond, Nevada Test Site, Nevada, DOE/NV/11718--306. Las Vegas, NV.

U.S. Environmental Protection Agency. 1996. 40 Code of Federal Regulations 265 Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities, Washington, D.C.

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APPENDIX A

INSPECTION CHECKLISTS AND FIELD NOTES

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CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST			
Inspection Date and Time: <u>1/10/05</u> <u>1005</u>		Reason for Inspection: Precipitation Event > 0.5 in. in 24 hours Occurred on <u>1/3-4/05</u>	
Date of Last Inspection: <u>12/29/04</u>		Reason for Last Inspection: <u>Precip. event</u>	
Responsible Agency: Bechtel Nevada Environmental Restoration			
Address: Nevada Test Site, Mercury, Nevada			
Responsible Agency Official: Jeffrey L. Smith, Project Manager			
Chief Inspector: <u>ALISSA TIBESAR</u>	Title: <u>TECHNICAL LEAD</u>	Organization: Environmental Restoration	
Assistant Inspector: <u>S. BURNISON</u>	Title: <u>TASK MANAGER</u>	Organization: Environmental Restoration	
A. GENERAL INSTRUCTIONS <ol style="list-style-type: none"> 1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection. 2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps. 3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist. 4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken. 5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency. 6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions. 			
B. PREPARATION (To be completed prior to site visit)			
	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	<input checked="" type="checkbox"/>		
2. Have the design basis documents been reviewed?	<input checked="" type="checkbox"/>		
3. Have the site as-built plans and site base map been reviewed?	<input checked="" type="checkbox"/>		
4. Have the previous inspection reports been reviewed?	<input checked="" type="checkbox"/>		
a. Were anomalies or trends detected on previous inspections?	<input checked="" type="checkbox"/>		fence needs repair on NW side.
b. Was maintenance performed?		<input checked="" type="checkbox"/>	
5. Have the site maintenance and repair records been reviewed?	<input checked="" type="checkbox"/>		
a. Has site repair resulted in a change from as-built conditions?		<input checked="" type="checkbox"/>	
b. Are revised as-built plans available that reflect repair changes?			N/A
C. SITE INSPECTION PREPARATION			
Assemble the following, as needed, to conduct inspections:			
<ol style="list-style-type: none"> a. Camera, film, and batteries b. Keys to locks c. Clipboard d. Tape measure e. Radio, pager, etc. f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans g. Other miscellaneous support equipment 			

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		✓	
b. Are there any new roads or trails?		✓	
c. Has there been any change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Has there been a change in the surrounding vegetation?		✓	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?	✓		Fence on NW side needs repair
b. Have any posts been damaged or their anchoring weakened?		✓	
c. Does the gate show evidence of tampering or damage?		✓	
d. Was the gate locked?	✓		
e. Is there any evidence of human intrusion onto the cover?		✓	
f. Is there any evidence of large animal intrusion onto the cover?		✓	
g. Have any signs been damaged or removed? (Number of signs replaced: 0)		✓	
h. Other?		✓	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		✓	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		✓	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		✓	
d. Other?		✓	
4. Waste unit cover:			
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of animal burrowing?		✓	
e. Is there vegetation growing on the cover?		✓	
g. Other (including trash, debris, etc within fenced area)?		✓	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST**5. Photograph Instructions:**

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:

YES	NO	EXPLANATION
<input type="checkbox"/>	<input checked="" type="checkbox"/>	No photos required for Precip. Inspections
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	

a. Have all photographs required by the photograph instructions been taken?

b. Has a photograph log been prepared?
(Number of photographs taken: 0)

c. Other?

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-------------------------------------	-------------------------------------

Person/Agency to whom report was made:

2. Are more frequent inspections required?

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-------------------------------------	-------------------------------------

3. Are existing maintenance/repair actions satisfactory?

<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	-------------------------------------

4. Is other maintenance/repair necessary?

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

Fence needs repair

5. Field conclusions/recommendations:

No issues were observed related to the weather event. The fence needs repair.

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: [Signature]

Date:

1/10/05

Printed Name:

AUSSA TIBESAK

Title:

TECH. LEAD

TITLE Precip Inspection CAU 92

PROJECT NO.

47

Work continued from Page N/A

BOOK NO.

1/10/05

Personnel - ALISSA TIBESAR (TL), SHAUGHN BURNISON (TM)

VISITORS - NONE

EQUIPMENT - NONE

⁵ WEATHER - Cloudy, windy, rainy, cold

SOW - Inspect CAU 92 - Area 6 Decon Pond Facility

SAFETY TOPICS - Driving hazards, cold stress, Flood watch, muddy conditions

0930 - Departed Mercury for Area 6

1005 - Arrived at CAU 92

¹⁰ - Water has pooled along the edges of the cover, but not on the cover itself.

- The fence has not been repaired due to weather constraints.

- No other issues or concerns were noted.

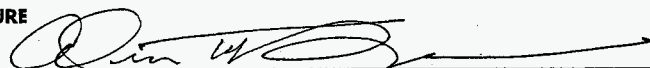
¹⁵ - The precipitation event has not threatened the integrity of the unit.

~~1030 - Departed for Mercury.~~

²⁰ ~~137~~

²⁵

SIGNATURE



DATE

1/10/05

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

Inspection Date and Time: <u>1/27/05</u>	Reason for Inspection: Precipitation Event > 0.5 in. in 24 hours Occurred on <u>1/26-27/05</u>
Date of Last Inspection: <u>1/10/05</u>	Reason for Last Inspection: <u>Precip event</u>
Responsible Agency: Bechtel Nevada Environmental Restoration	
Address: Nevada Test Site, Mercury, Nevada	
Responsible Agency Official: Jeffrey L. Smith, Project Manager	
Chief Inspector: <u>ALISSA TIBESAN</u>	Title: <u>TECH. LEAD</u>
Assistant Inspector: <u>S. BURNISON</u>	Title: <u>TASK MANAGER</u>
Organization: Environmental Restoration	

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Have the design basis documents been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Have the site as-built plans and site base map been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Have the previous inspection reports been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Were anomalies or trends detected on previous inspections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Was maintenance performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>fence was repaired</u>
5. Have the site maintenance and repair records been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Has site repair resulted in a change from as-built conditions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Are revised as-built plans available that reflect repair changes?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		✓	
b. Are there any new roads or trails?		✓	
c. Has there been any change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Has there been a change in the surrounding vegetation?		✓	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		✓	
b. Have any posts been damaged or their anchoring weakened?		✓	
c. Does the gate show evidence of tampering or damage?		✓	
d. Was the gate locked?	✓		
e. Is there any evidence of human intrusion onto the cover?		✓	
f. Is there any evidence of large animal intrusion onto the cover?		✓	
g. Have any signs been damaged or removed? (Number of signs replaced: <u>6</u>)		✓	
h. Other?		✓	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		✓	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		✓	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		✓	
d. Other?		✓	
4. Waste unit cover:			
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of animal burrowing?		✓	
e. Is there vegetation growing on the cover?		✓	
g. Other (including trash, debris, etc within fenced area)?		✓	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

5. Photograph Instructions:

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:	YES	NO	EXPLANATION
a. Have all photographs required by the photograph instructions been taken?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No photos required for precip inspections
b. Has a photograph log been prepared? (Number of photographs taken: <u>0</u>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Other?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

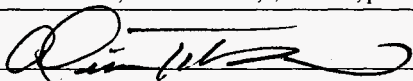
E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit? (Immediate report required)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Person/Agency to whom report was made:		
2. Are more frequent inspections required?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3. Are existing maintenance/repair actions satisfactory?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is other maintenance/repair necessary?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5. Field conclusions/recommendations: <u>No issues.</u>		

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature:



Date:

1/27/05

Printed Name:

ARISSA TIBESKA

Title:

TECH CEO

January 27, 2005

Personnel:

Alissa Tibesar, TL

Shaughn Burnison, TM

5 Sow - Inspect CAU 92, Area 6 DeLeon Pond Facility

Equipment - none

Weather - cloudy, cold

1300 - left Mercury for CAU 92

1330 - Arrived at CAU 92 for inspection

10 Fence & signs in good condition.

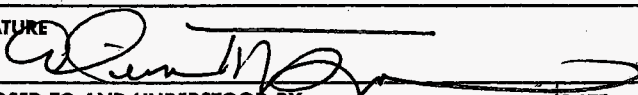
Some standing water is on the cover itself, but
there is some water on the outside of the
cover within the fenced area.

No issues or concerns.

15

20

25

SIGNATURE 	DATE 1/27/05		
DISCLOSED TO AND UNDERSTOOD BY	DATE	WITNESS	DATE

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

Inspection Date and Time: 2/23/05 1410	Reason for Inspection: Precipitation Event > 0.5 in. in 24 hours Occurred on 2/18/05	
Date of Last Inspection: 1/27/05	Reason for Last Inspection: Precip	
Responsible Agency: Bechtel Nevada Environmental Restoration		
Address: Nevada Test Site, Mercury, Nevada		
Responsible Agency Official: Jeffrey L. Smith, Project Manager		
Chief Inspector: ALISSA TIBESAR	Title: TECH LEAD	Organization: Environmental Restoration
Assistant Inspector: MIKE FLOYD	Title: SR. TECH. LEAD	Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)

	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Have the design basis documents been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Have the site as-built plans and site base map been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Have the previous inspection reports been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Were anomalies or trends detected on previous inspections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Was maintenance performed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Have the site maintenance and repair records been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Has site repair resulted in a change from as-built conditions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Are revised as-built plans available that reflect repair changes?	<input type="checkbox"/>	<input type="checkbox"/>	N/A

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Are there any new roads or trails?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Has there been any change in the position of nearby washes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Has there been lateral excursion or erosion/deposition of nearby washes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Are there new drainage channels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f. Has there been a change in the surrounding vegetation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Have any posts been damaged or their anchoring weakened?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Does the gate show evidence of tampering or damage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Was the gate locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Is there any evidence of human intrusion onto the cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f. Is there any evidence of large animal intrusion onto the cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. Have any signs been damaged or removed? (Number of signs replaced: <u>0</u>)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
h. Other?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Other?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Waste unit cover:			
a. Is there evidence of settling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Is there evidence of cracking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Is there evidence of erosion (wind or water)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Is there evidence of animal burrowing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Is there vegetation growing on the cover?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. Other (including trash, debris, etc within fenced area)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST**5. Photograph Instructions:**

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:

YES	NO	EXPLANATION
<input type="checkbox"/>	<input checked="" type="checkbox"/>	No photos required for precipitation inspections
<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	

a. Have all photographs required by the photograph instructions been taken?

b. Has a photograph log been prepared?
(Number of photographs taken: 0)

c. Other?

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Person/Agency to whom report was made:

2. Are more frequent inspections required?

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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3. Are existing maintenance/repair actions satisfactory?

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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4. Is other maintenance/repair necessary?

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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5. Field conclusions/recommendations:

No issues. Unit in excellent condition

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: Alissa Tibesara

Date: 2/23/05

Printed Name: ALISSA TIBESARA

Title: TECH LEAD

2/23/05

Personnel: Missa Tibesar (TL)
Mike Floyd (TL)

Visitors:

5 equipment: None

Weather: Cloudy, 60°F

SOW: Inspect CAU 92 for precipitation damage and general condition of the unit.

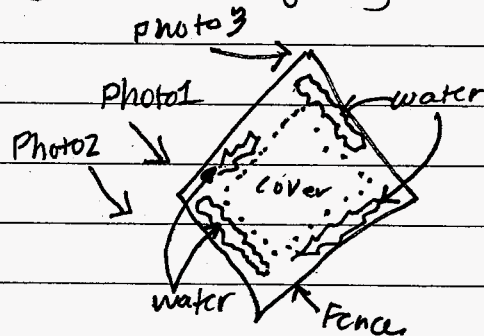
10 Safety: Cold Stress, Slip/Trip/Falls, communications, nearest medical Area 6, buddy system, driving safety

1340: Departed Mercury

1410: Arrived at CAU 92, Area 6 Decon Pond Facility

No standing water was present on the cover itself, but water had ponded outside the cover inside the fence.

15 The fence was in good condition since the repairs. Signs were in good condition. Herbicide had been applied to the cover. No issues or concerns affecting the integrity of the cover were observed.



[Signature]

2/23/05

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST			
Inspection Date and Time: 03/21/2005		Reason for Inspection: Quarterly	
Date of Last Post-Closure Inspection: 02/23/2005		Reason for Last Post-Closure Inspection: Precip Event	
Responsible Agency: Bechtel Nevada Environmental Restoration			
Address: Nevada Test Site, Mercury, Nevada			
Responsible Agency Official: Jeffrey L. Smith, Project Manager			
Chief Inspector: ANISSA TIBESAR	Title: TECHNICAL LEAD	Organization: Environmental Restoration	
Assistant Inspector: Shaughn Burnison	Title: TASK MANAGER	Organization: Environmental Restoration	
A. GENERAL INSTRUCTIONS <ol style="list-style-type: none"> 1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection. 2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps. 3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist. 4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken. 5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency. 6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions. 			
B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	✓		
2. Have the design basis documents been reviewed?	✓		
3. Have the site as-built plans and site base map been reviewed?	✓		
4. Have the previous inspection reports been reviewed?	✓		
a. Were anomalies or trends detected on previous inspections?		✓	
b. Was maintenance performed?	✓		Fence repair on NW side, herbicide was applied, brush removal, T-posts outside site were removed.
5. Have the site maintenance and repair records been reviewed?	✓		
a. Has site repair resulted in a change from as-built conditions?		✓	
b. Are revised as-built plans available that reflect repair changes?		✓	N/A
C. SITE INSPECTION PREPARATION <p>Assemble the following, as needed, to conduct inspections:</p> <ol style="list-style-type: none"> a. Camera, film, and batteries b. Keys to locks c. Clipboard d. Tape measure e. Radio, pager, etc. f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans g. Other miscellaneous support equipment 			

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		✓	
b. Are there any new roads or trails?		✓	
c. Has there been any change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Has there been a change in the surrounding vegetation?		✓	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		✓	
b. Have any posts been damaged or their anchoring weakened?		✓	
c. Does the gate show evidence of tampering or damage?		✓	
d. Was the gate locked?	✓		
e. Is there any evidence of human intrusion onto the cover?		✓	
f. Is there any evidence of large animal intrusion onto the cover?		✓	
g. Have any signs been damaged or removed? (Number of signs replaced: <u>0</u>)		✓	
h. Other?		✓	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		✓	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		✓	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		✓	
d. Other?		✓	
4. Waste unit cover:			
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of animal burrowing?		✓	
e. Is there vegetation growing on the cover?		✓	
g. Other (including trash, debris, etc within fenced area)?		✓	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST**5. Photograph Instructions:**

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:

	YES	NO	EXPLANATION
a. Have all photographs required by the photograph instructions been taken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Has a photograph log been prepared? (Number of photographs taken: 8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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Person/Agency to whom report was made:

2. Are more frequent inspections required?

<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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3. Are existing maintenance/repair actions satisfactory?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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4. Is other maintenance/repair necessary?

<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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5. Field conclusions/recommendations: The unit is in excellent condition. The fence looks good since the repair. All signs, subsidence monuments, and the fence are in good condition. No cracking, erosion, or subsidence was observed. No maintenance or repairs are needed.

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: *Alissa Tibesar*

Date: 03/21/2005

Printed Name: Alissa Tibesar

Title: Technical Lead

1050 CAU 92

Fence and signs are all in excellent condition

No debris or vegetation was present inside the fence

No erosion, cracking, or subsidence on the cover.

Lock was changed.

The site is in excellent condition.

No maintenance or repairs are needed.

1130 CAU 112

New signs are in excellent condition

Fence, riprap, monuments, and monitoring wells
look good.Some weeds are growing on the cover that
need to be removed.

No cracking, subsidence, or erosion was observed.

KJT

SIGNATURE



DATE

3/21/05

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST			
Inspection Date and Time: 6/21/05	Reason for Inspection: Quarterly		
Date of Last Post-Closure Inspection:	Reason for Last Post-Closure Inspection: quarterly inspection		
Responsible Agency: Bechtel Nevada Environmental Restoration			
Address: Nevada Test Site, Mercury, Nevada			
Responsible Agency Official: Jeffrey L. Smith, Project Manager			
Chief Inspector: S. A. BURNISON	Title: FIELD SUPPORT TECH LEAD	Organization: Environmental Restoration	
Assistant Inspector: M. S. FLOYD	Title: SR. TECH LEAD	Organization: Environmental Restoration	
A. GENERAL INSTRUCTIONS <ol style="list-style-type: none"> 1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection. 2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps. 3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist. 4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken. 5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency. 6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions. 			
B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	X		
2. Have the design basis documents been reviewed?	X		
3. Have the site as-built plans and site base map been reviewed?	X		
4. Have the previous inspection reports been reviewed?	X		
a. Were anomalies or trends detected on previous inspections?	X		Some vegetation had taken hold on the SE margin
b. Was maintenance performed?	X		A SECOND APPLICATION OF HERBICIDE ON MARGIN ONLY
5. Have the site maintenance and repair records been reviewed?	X		
a. Has site repair resulted in a change from as-built conditions?		X	
b. Are revised as-built plans available that reflect repair changes?	X		
C. SITE INSPECTION PREPARATION <p>Assemble the following, as needed, to conduct inspections:</p> <ol style="list-style-type: none"> a. Camera, film, and batteries b. Keys to locks c. Clipboard d. Tape measure e. Radio, pager, etc. f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans g. Other miscellaneous support equipment 			

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		X	
b. Are there any new roads or trails?		X	
c. Has there been any change in the position of nearby washes?		X	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		X	
e. Are there new drainage channels?		X	
f. Has there been a change in the surrounding vegetation?		X	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		X	
b. Have any posts been damaged or their anchoring weakened?		X	
c. Does the gate show evidence of tampering or damage?	X		GATE IS BROKEN, BUT NOT INTEGRAL TO LOCKING MECHANISM
d. Was the gate locked?	X		
e. Is there any evidence of human intrusion onto the cover?		X	
f. Is there any evidence of large animal intrusion onto the cover?		X	
g. Have any signs been damaged or removed? (Number of signs replaced: 0)		X	
h. Other?		X	N/A
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		X	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		X	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		X	
d. Other?			PHOTO POINT MARKERS COULD BE REMARKED FOR CONVENIENCE.
4. Waste unit cover:			
a. Is there evidence of settling?		X	
b. Is there evidence of cracking?		X	
c. Is there evidence of erosion (wind or water)?		X	
d. Is there evidence of animal burrowing?		X	
e. Is there vegetation growing on the cover?	X		VERY MINOR VEG IN MARGIN
g. Other (including trash, debris, etc within fenced area)?		X	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST**5. Photograph Instructions:**

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:

YES	NO	EXPLANATION
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	

a. Have all photographs required by the photograph instructions been taken?

☒

b. Has a photograph log been prepared?
(Number of photographs taken: 8)

☒

c. Other?

☒**E. FIELD CONCLUSIONS**

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

☒

Person/Agency to whom report was made: N/A

2. Are more frequent inspections required?

☒

3. Are existing maintenance/repair actions satisfactory?

☒

4. Is other maintenance/repair necessary?

☒

5. Field conclusions/recommendations: SITE LOOKS GOOD

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: Shaughn A. Burnison

Date: 6/21/2005

Printed Name: SHAUGHN A. BURNISON

Title: FIELD SUPPORT TECH LEAD

CAU 92 - AREA 6 DECON POND

PERSONNEL: MIKE FLOYD - TL

SHAUNTO BURMAN - TL

BRIAN JOERGER - TL

EQUIP: CAMERA

WEATHER: SUNNY, 90, WIND 10 MPH


SCOPE: QUARTERLY INSPECTION

TAILGATE: HEAT, BIOHAZ, SLIPS, URMA

11:15 AM: ARRIVE CAU 92 NOTE THAT HASP ON GATE IS DAMAGED (DOES NOT INTERFERE WITH LOCK INTEGRITY). FENCE & SIGNS ARE IN GOOD CONDITION. NO VEGETATION ON THE COVER. VEGETATION ON SE MARGIN IS DEAD & DRY AFTER SECOND APPLICATION OF HERBICIDE TWO WEEKS AGO. VERY MINOR LIVE VEGETATION ON MARGIN ON NE SIDE ^{UPROOTED} ~~REMOVED~~ BY FOOT. NO CRACKS ON COVER. VERY MINOR DESSICATION ON MARGIN. SITE IN EXCELLENT CONDITION.

CAU 112 - AREA 23 HAZARDOUS WASTE TRENCHES.

12:00 NOON: ARRIVE CAU 112. DRIVE INTERIOR MARGIN OF LANDFILL. FENCING & SIGNS ARE IN EXCELLENT CONDITION. GATE & LOCK IN EXCELLENT CONDITION. VEGETATION ON MARGIN OF UNIT IS DEAD. SOME VEGETATION ON THE UNIT STILL APPEARS VITAL WITH SIGNS OF GREEN EVEN WITH A SECOND APPLICATION OF HERBICIDE TWO WEEKS AGO. UNIT WILL BE COURTESY INSPECTED AGAIN IN 60 DAYS OR SO TO REEVALUATE VEGETATION. NO OTHER CONCERNS.

SIGNATURE 		DATE 6/21/05	
DISCLOSED TO AND UNDERSTOOD BY	DATE	WITNESS	DATE

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

Inspection Date and Time: <u>8/3/05 15:40</u>	Reason for Inspection: Precipitation Event <u>>0.5 in. in 24 hours</u> Occurred on <u>08/28/05 0.58"</u>
---	--

Date of Last Post-Closure Inspection: <u>06/22/05</u>	Reason for Last Post-Closure Inspection: <u>QUARTERLY</u>
---	---

Responsible Agency: Bechtel Nevada Environmental Restoration

Address: Nevada Test Site, Mercury, Nevada

Responsible Agency Official: Jeffrey L. Smith, Project Manager

Chief Inspector: <u>M. FLOYD</u>	Title: <u>TECH LEAD</u>	Organization: Environmental Restoration
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Assistant Inspector:	Title:	Organization: Environmental Restoration
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A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)

	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	X		
2. Have the design basis documents been reviewed?	X		
3. Have the site as-built plans and site base map been reviewed?	X		
4. Have the previous inspection reports been reviewed?	X		
a. Were anomalies or trends detected on previous inspections?		X	
b. Was maintenance performed?		X	
5. Have the site maintenance and repair records been reviewed?	X		
a. Has site repair resulted in a change from as-built conditions?		X	
b. Are revised as-built plans available that reflect repair changes?	X		

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		X	
b. Are there any new roads or trails?		X	
c. Has there been any change in the position of nearby washes?		X	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		X	
e. Are there new drainage channels?		X	
f. Has there been a change in the surrounding vegetation?		X	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		X	
b. Have any posts been damaged or their anchoring weakened?		X	
c. Does the gate show evidence of tampering or damage?		X	
d. Was the gate locked?	X		
e. Is there any evidence of human intrusion onto the cover?		X	
f. Is there any evidence of large animal intrusion onto the cover?		X	
g. Have any signs been damaged or removed? (Number of signs replaced: <u>0</u>)		X	
h. Other?		X	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		X	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		X	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		X	
d. Other?		X	
4. Waste unit cover:			
a. Is there evidence of settling?		X	
b. Is there evidence of cracking?		X	
c. Is there evidence of erosion (wind or water)?		X	
d. Is there evidence of animal burrowing?		X	
e. Is there vegetation growing on the cover?		X	
g. Other (including trash, debris, etc within fenced area)?		X	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST**5. Photograph Instructions:**

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:

YES	NO	EXPLANATION
	X	PHOTOS ARE NOT REQUIRED FOR
	X	PRECIPITATION OR EQ INSP'S.
	X	

a. Have all photographs required by the photograph instructions been taken?

b. Has a photograph log been prepared?
(Number of photographs taken: 0)

c. Other?

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

Person/Agency to whom report was made:

2. Are more frequent inspections required?

3. Are existing maintenance/repair actions satisfactory?

4. Is other maintenance/repair necessary?

5. Field conclusions/recommendations:

PRIOR TO NEXT RCRA INSPECTION RECOMMEND REPAIRING
OR REPLACING WAVE BARRIER ON NE FENCE

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: M. L. FLOYD

Date: 8/3/05

Printed Name: M. L. FLOYD

Title: 8/3/05

8/3/05

CAU 92

PRECIP INSPECTION.

1500 - ARRIVE ON LOCATION - (FLOYD)

- 5
- PERFORM INSPECTION, NO PHOTOS TAKEN
 - NO ISSUES OR CONCERN.
 - *NOTE: PRIOR TO NEXT RCRA INSPECTION
WAVE BARRIER SHOULD BE REPAIRED/REPLACED

10 1530 - SITE SECURE

15

20

25

SIGNATURE



DATE

8/3/05

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLISTInspection Date and Time: **9/27/05 1450**

Reason for Inspection: Quarterly

Date of Last Post-Closure Inspection: **8/3/05**Reason for Last Post-Closure Inspection: **Precip**

Responsible Agency: Bechtel Nevada Environmental Restoration

Address: Nevada Test Site, Mercury, Nevada

Responsible Agency Official: Jeffrey L. Smith, Project Manager

Chief Inspector: **Mike Floyd**Title: **Technical Lead**

Organization: Environmental Restoration

Assistant Inspector: **Glenn Richardson**Title: **Task Manager**

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)

YES NO EXPLANATION

1. Has the Post-Closure Permit been reviewed?

✓

2. Have the design basis documents been reviewed?

✓

3. Have the site as-built plans and site base map been reviewed?

✓

4. Have the previous inspection reports been reviewed?

✓

a. Were anomalies or trends detected on previous inspections?

✓

b. Was maintenance performed?

✓

5. Have the site maintenance and repair records been reviewed?

✓

a. Has site repair resulted in a change from as-built conditions?

✓

b. Are revised as-built plans available that reflect repair changes?

✓

N/A

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		✓	
b. Are there any new roads or trails?		✓	
c. Has there been any change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Has there been a change in the surrounding vegetation?	✓		NEW LIGHT GROWTH ON EDGE OF CAP/COVER
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		✓	
b. Have any posts been damaged or their anchoring weakened?		✓	
c. Does the gate show evidence of tampering or damage?		✓	
d. Was the gate locked?	✓		
e. Is there any evidence of human intrusion onto the cover?		✓	
f. Is there any evidence of large animal intrusion onto the cover?		✓	
g. Have any signs been damaged or removed? (Number of signs replaced: 0)		✓	
h. Other?		✓	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		✓	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		✓	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		✓	
d. Other?		✓	
4. Waste unit cover:			
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of animal burrowing?		✓	
e. Is there vegetation growing on the cover?		✓	
g. Other (including trash, debris, etc within fenced area)?		✓	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

5. Photograph Instructions:

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:

	YES	NO	EXPLANATION
a. Have all photographs required by the photograph instructions been taken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Has a photograph log been prepared? (Number of photographs taken: <u>8</u>)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Other?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

<input type="checkbox"/>	<input checked="" type="checkbox"/>	
--------------------------	-------------------------------------	--

Person/Agency to whom report was made:

2. Are more frequent inspections required?

<input type="checkbox"/>	<input checked="" type="checkbox"/>	
--------------------------	-------------------------------------	--

3. Are existing maintenance/repair actions satisfactory?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	
-------------------------------------	--------------------------	--

4. Is other maintenance/repair necessary?

<input checked="" type="checkbox"/>	<input type="checkbox"/>	
-------------------------------------	--------------------------	--

SEE NOTES

5. Field conclusions/recommendations: GATE Locked, and General Site Condition was found to be in Good Condition.

Recommend Removal of Light Vegetative Growth on CAP/COVE edges Be removed.

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: CR J. 20

Date: 9/27/05

Printed Name: Mike Floyd

Title: Sr Tech

TITLE

PROJECT NO.

12

Work continued from Page 124

9/27/05

BOOK NO.

RCRA INSPECTIONS

5

CALL 92: ARRIVE ON LOCATION 1450, GATE LOCKED & IN GOOD CONDITION. SIGNS, FENCE, WAVE BARRIER WERE FOUND TO BE IN GOOD CONDITION, GENERAL CAP AREA WAS FOUND TO BE IN GOOD CONDITION. RECOMMEND LIGHT VEGETATION GROWTH ON EDGE OF CAP BE REMOVED. 8 PHOTOS TAKEN.

10

CALL 112: ARRIVE ON LOCATION 1600 hrs, GATE LOCKED AND IN GOOD CONDITION. GENERAL SITE CONDITION GOOD SIGNS GOOD, FENCE GOOD, MONUMENTS GOOD, WELLS GOOD, NO SIGNS OF PONDING OR EROSION, RIP-RAP IN GOOD CONDITION. "ROUND-UP WEED KILLER" WAS APPLIED PRIOR TO THIS INSPECTION AND HAS KILLED OFF ALL WEEDS.

15

20

25

SIGNATURE

Mr. J. Floyd

DATE

9/27/05

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

Inspection Date and Time: 10/20/05, 0830	Reason for Inspection: Precipitation Event > 0.5 in. in 24 hours Occurred on 10/18/05	
Date of Last Post-Closure Inspection: 9/27/05	Reason for Last Post-Closure Inspection: Quarterly	
Responsible Agency: Bechtel Nevada Environmental Restoration		
Address: Nevada Test Site, Mercury, Nevada		
Responsible Agency Official: Jeffrey L. Smith, Project Manager		
Chief Inspector: Alissa Silva	Title: Technical Lead	Organization: Environmental Restoration
Assistant Inspector: Mike Floyd	Title: Sr. Technical Lead	Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)

	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	✓		
2. Have the design basis documents been reviewed?	✓		
3. Have the site as-built plans and site base map been reviewed?	✓		
4. Have the previous inspection reports been reviewed?	✓		
a. Were anomalies or trends detected on previous inspections?		✓	
b. Was maintenance performed?		✓	
5. Have the site maintenance and repair records been reviewed?	✓		
a. Has site repair resulted in a change from as-built conditions?		✓	
b. Are revised as-built plans available that reflect repair changes?			N/A

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		✓	
b. Are there any new roads or trails?		✓	
c. Has there been any change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Has there been a change in the surrounding vegetation?		✓	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		✓	
b. Have any posts been damaged or their anchoring weakened?		✓	
c. Does the gate show evidence of tampering or damage?		✓	
d. Was the gate locked?	✓		
e. Is there any evidence of human intrusion onto the cover?		✓	
f. Is there any evidence of large animal intrusion onto the cover?		✓	
g. Have any signs been damaged or removed? (Number of signs replaced: 0)		✓	
h. Other?		✓	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		✓	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		✓	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		✓	
d. Other?		✓	
4. Waste unit cover:			
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of animal burrowing?		✓	
e. Is there vegetation growing on the cover?	✓		small amount around edge of cover
g. Other (including trash, debris, etc within fenced area)?		✓	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST**5. Photograph Instructions:**

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

no photos are required for precip. inspection

6. Photograph Documentation:

YES	NO	EXPLANATION
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	

a. Have all photographs required by the photograph instructions been taken?

b. Has a photograph log been prepared?
(Number of photographs taken: \emptyset)

c. Other?

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	-------------------------------------

Person/Agency to whom report was made:

2. Are more frequent inspections required?

<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	-------------------------------------

3. Are existing maintenance/repair actions satisfactory?

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

4. Is other maintenance/repair necessary?

<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	-------------------------------------

5. Field conclusions/recommendations: *Unit in excellent condition. No issues or concerns noted.*

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: *Alissa Silvas*

Date: *10/20/05*

Printed Name: *Alissa Silvas*

Title: *Technical Lead*

Thursday, October 20, 2005

Personnel:

Alissa Silva, TL

Mike Floyd, TL

5 Ben McGee, TL

SOW: Inspect CAU 92, Decon Pond

Equipment: none

Weather: cool, clear, calm, mid-60's

0830- left Mercury for CAU 92

10 0900- Arrived at CAU 92

Fence and wave barriers in excellent conditions

Signs are readable- in good repair- none down

No standing water inside fence

Cover in good condition- no issues or concerns

15 Very small amount of vegetation along edge
of cover- not a concern

20 *ts*

SIGNATURE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

DATE

10/20/05

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLISTInspection Date and Time: *12/12/05 11:00 AM*

Reason for Inspection: Quarterly

Date of Last Post-Closure Inspection:

Reason for Last Post-Closure Inspection: *precip insp.*

Responsible Agency: Bechtel Nevada Environmental Restoration

Address: Nevada Test Site, Mercury, Nevada

Responsible Agency Official: Jeffrey L. Smith, Project Manager

Chief Inspector: *Mike Floyd*Title: *Field OPS*

Organization: Environmental Restoration

Assistant Inspector: *Glenn Richardson*Title: *TM*

Organization: Environmental Restoration

A. GENERAL INSTRUCTIONS

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected quarterly with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)

YES NO EXPLANATION

1. Has the Post-Closure Permit been reviewed?

✓

2. Have the design basis documents been reviewed?

✓

3. Have the site as-built plans and site base map been reviewed?

✓

4. Have the previous inspection reports been reviewed?

✓

a. Were anomalies or trends detected on previous inspections?

✓

VEGETATION OR COVER DISPARITIES

b. Was maintenance performed?

✓

VEGETATION REMOVAL

5. Have the site maintenance and repair records been reviewed?

✓

a. Has site repair resulted in a change from as-built conditions?

✓

b. Are revised as-built plans available that reflect repair changes?

✓

C. SITE INSPECTION PREPARATION

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		✓	
b. Are there any new roads or trails?		✓	
c. Has there been any change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Has there been a change in the surrounding vegetation?		✓	VEGETATION REMOVED
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		✓	
b. Have any posts been damaged or their anchoring weakened?		✓	
c. Does the gate show evidence of tampering or damage?		✓	
d. Was the gate locked?	✓		
e. Is there any evidence of human intrusion onto the cover?		✓	
f. Is there any evidence of large animal intrusion onto the cover?		✓	
g. Have any signs been damaged or removed? (Number of signs replaced: <u>0</u>)		✓	
h. Other?		N/A	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		✓	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		✓	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		✓	
d. Other?		N/A	
4. Waste unit cover:			
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of animal burrowing?		✓	
e. Is there vegetation growing on the cover?		✓	
g. Other (including trash, debris, etc within fenced area)?		✓	

CAU 92: AREA 6 DECON POND FACILITY, POST-CLOSURE INSPECTION CHECKLIST**5. Photograph Instructions:**

A total of 8 photographs are required to be taken during each inspection of CAU 92. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Four (4) from the center of the unit, one in each compass direction (i.e., N, S, E, W) and
- Four (4) of the unit from outside the fence, one in each compass direction.

6. Photograph Documentation:

YES	NO	EXPLANATION
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	10/14

a. Have all photographs required by the photograph instructions been taken?

b. Has a photograph log been prepared?
(Number of photographs taken: 8)

c. Other?

E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?
(Immediate report required)

<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	-------------------------------------

Person/Agency to whom report was made:

2. Are more frequent inspections required?

<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	-------------------------------------

3. Are existing maintenance/repair actions satisfactory?

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

4. Is other maintenance/repair necessary?

<input type="checkbox"/>	<input checked="" type="checkbox"/>
--------------------------	-------------------------------------

5. Field conclusions/recommendations: CONTINUE REGULAR INSPECTIONS.

F. CERTIFICATION

I have conducted an inspection of CAU 92, Area 6 Decon Pond Facility, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature: Mike Floyd

Date: 12/12/05

Printed Name: Mike Floyd

Title: 12/12/05

12/12/05

RCRA INSPECTIONS CONT.

C44(S) 90, 91, 92, 110, 112

1005 - ARRIVE AT C44 110 (C23 and 64). Need to change
 5 gate lock. (Does not open). Arrived to find Gate
 locked, Fence in good condition, Signs in good
 condition. There were 3 areas of subsidence
 were found.

1. 10'-12' North of the EAST TOR station there
 10 is a 1'w x 1 1/2' x 8' long area of
 subsidence.

2. At the East end ^{side} there is an
 extension of subsidence that has been
 monitored in the past. 2'w x 18' D x 6' long

15 3. On the North East subsidence area
 that has been monitored has opened up again
 1 1/2' x 2' D. x 10-12' long.

Recommend Backfilling all areas to surface grade.
 By the next inspection.

1100 - ARRIVE AT C44 92. Gate locked, Fence & Signs
 were found to be in good condition. Some gaps in
 wave barrier. Weed Removal looks good.
 Overall site condition was found in good
 25 condition.

12/12/05

APPENDIX B

PHOTOGRAPHS

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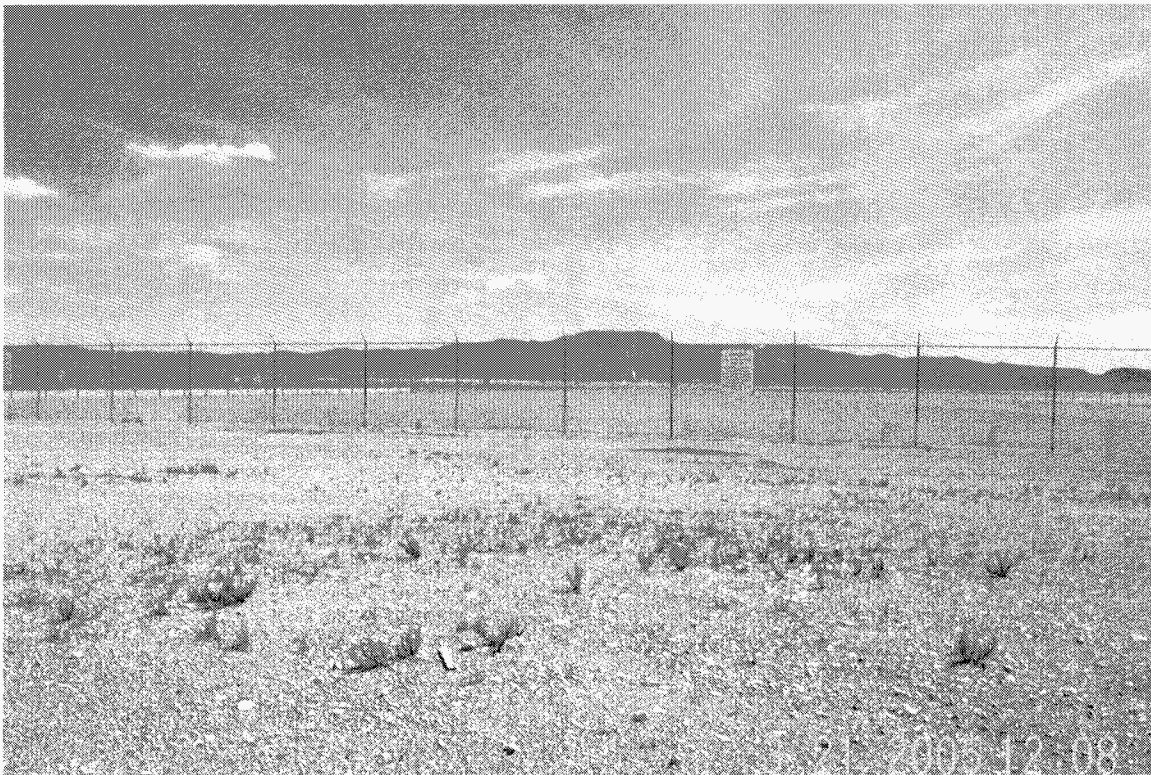
PHOTOGRAPH LOG

PHOTOGRAPH	DATE	DESCRIPTION
1	3/21/2005	Outside unit looking north
2	3/21/2005	Outside unit looking east
3	3/21/2005	Outside unit looking south
4	3/21/2005	Outside unit looking west
5	3/21/2005	Inside unit looking north
6	3/21/2005	Inside unit looking east
7	3/21/2005	Inside unit looking south
8	3/21/2005	Inside unit looking west
9	6/21/2005	Outside unit looking north
10	6/21/2005	Outside unit looking east
11	6/21/2005	Outside unit looking south
12	6/21/2005	Outside unit looking west
13	6/21/2005	Inside unit looking north
14	6/21/2005	Inside unit looking east
15	6/21/2005	Inside unit looking south
16	6/21/2005	Inside unit looking west
17	9/27/2005	Outside unit looking north
18	9/27/2005	Outside unit looking east
19	9/27/2005	Outside unit looking south
20	9/27/2005	Outside unit looking west
21	9/27/2005	Inside unit looking north
22	9/27/2005	Inside unit looking east
23	9/27/2005	Inside unit looking south
24	9/27/2005	Inside unit looking west
25	12/12/2005	Outside unit looking north
26	12/12/2005	Outside unit looking east
27	12/12/2005	Outside unit looking south
28	12/12/2005	Outside unit looking west
29	12/12/2005	Inside unit looking north
30	12/12/2005	Inside unit looking east
31	12/12/2005	Inside unit looking south
32	12/12/2005	Inside unit looking west

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Photograph 1: Outside unit looking north, 03/21/2005



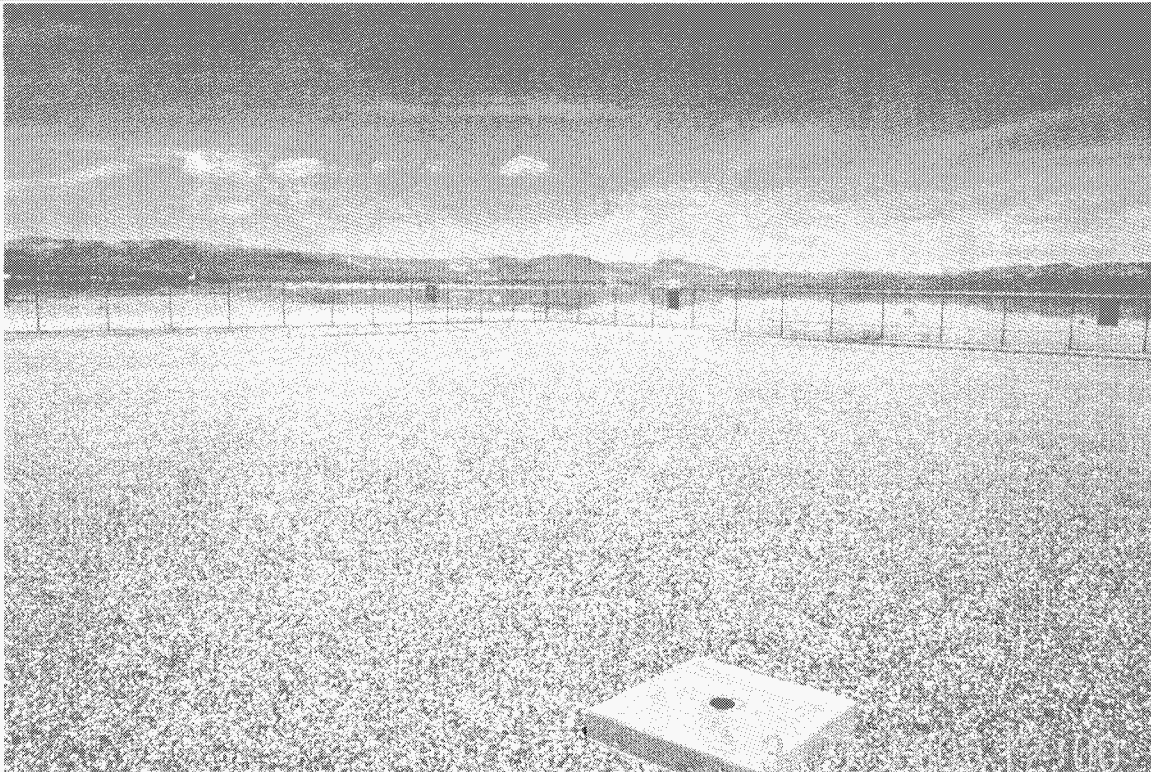
Photograph 2: Outside unit looking east, 03/21/2005



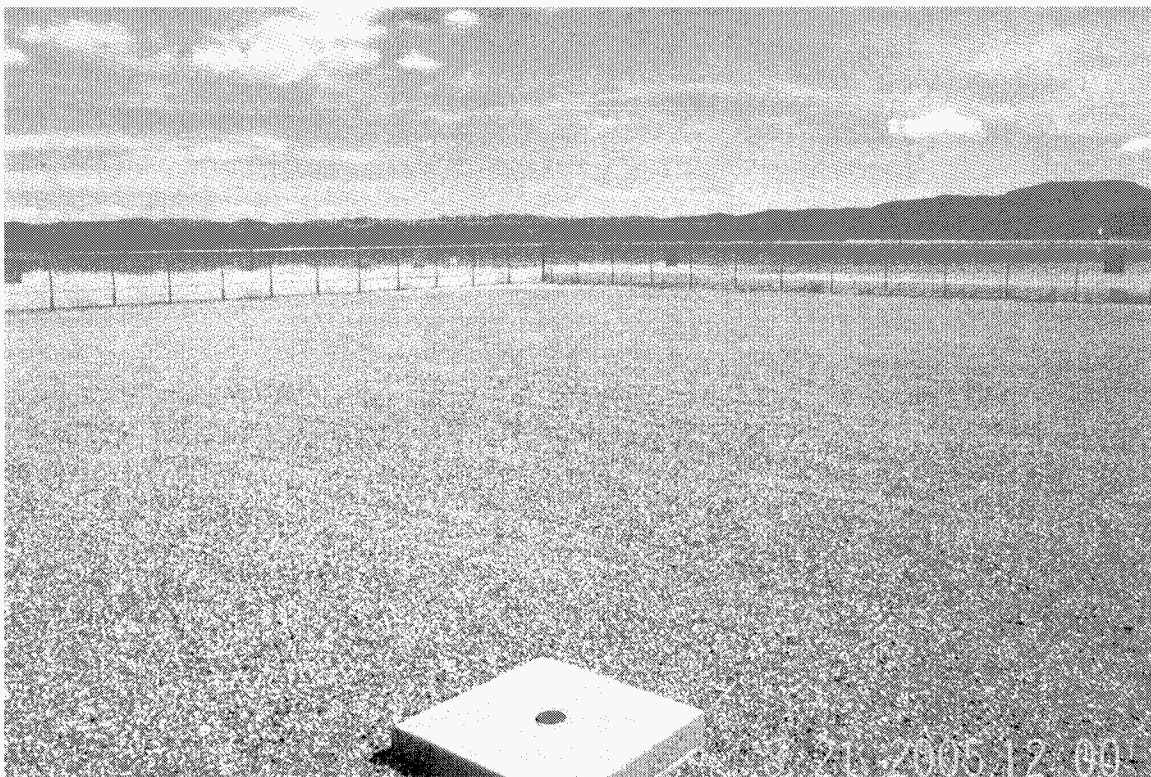
Photograph 3: Outside unit looking south, 03/21/2005



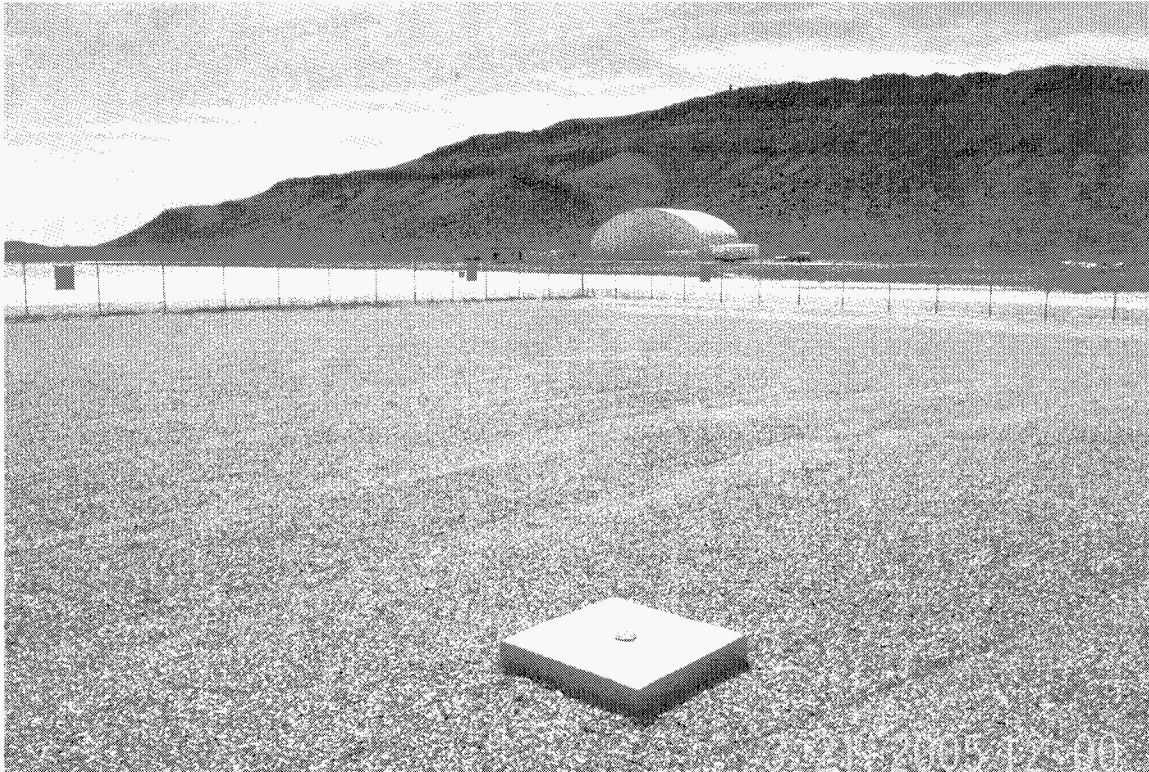
Photograph 4: Outside unit looking west, 03/21/2005



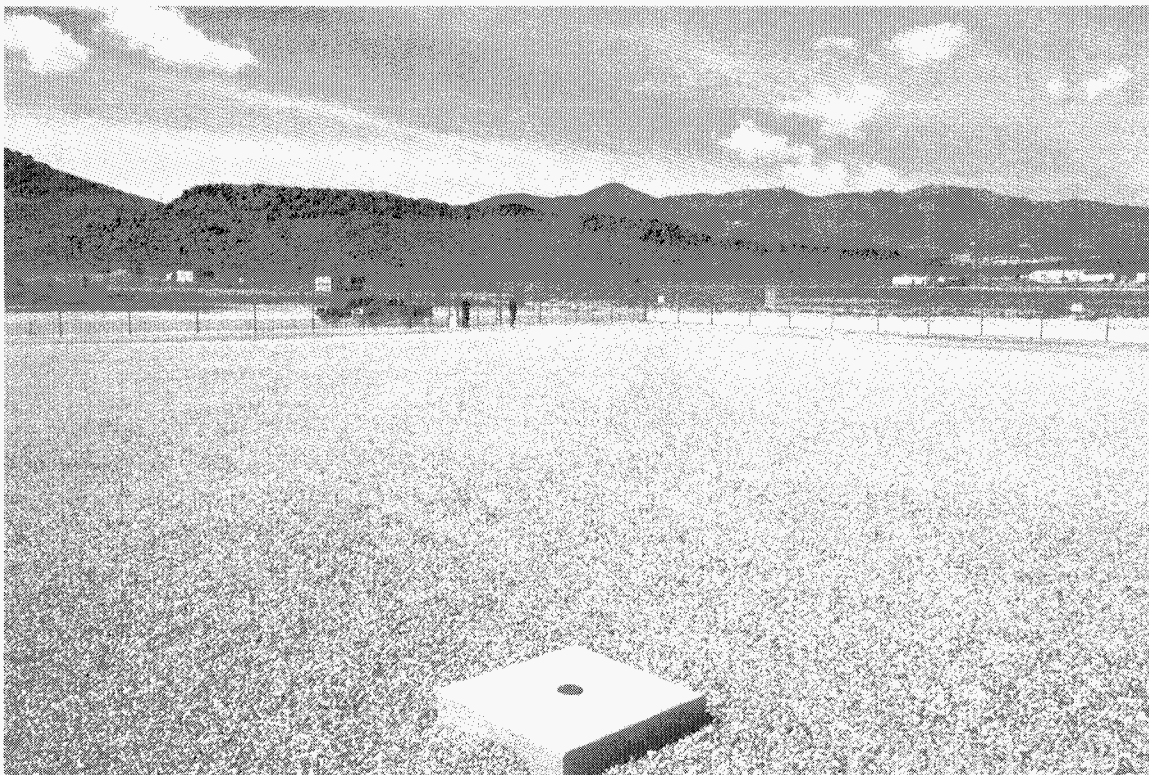
Photograph 5: Inside unit looking north, 03/21/2005



Photograph 6: Inside unit looking east, 03/21/2005



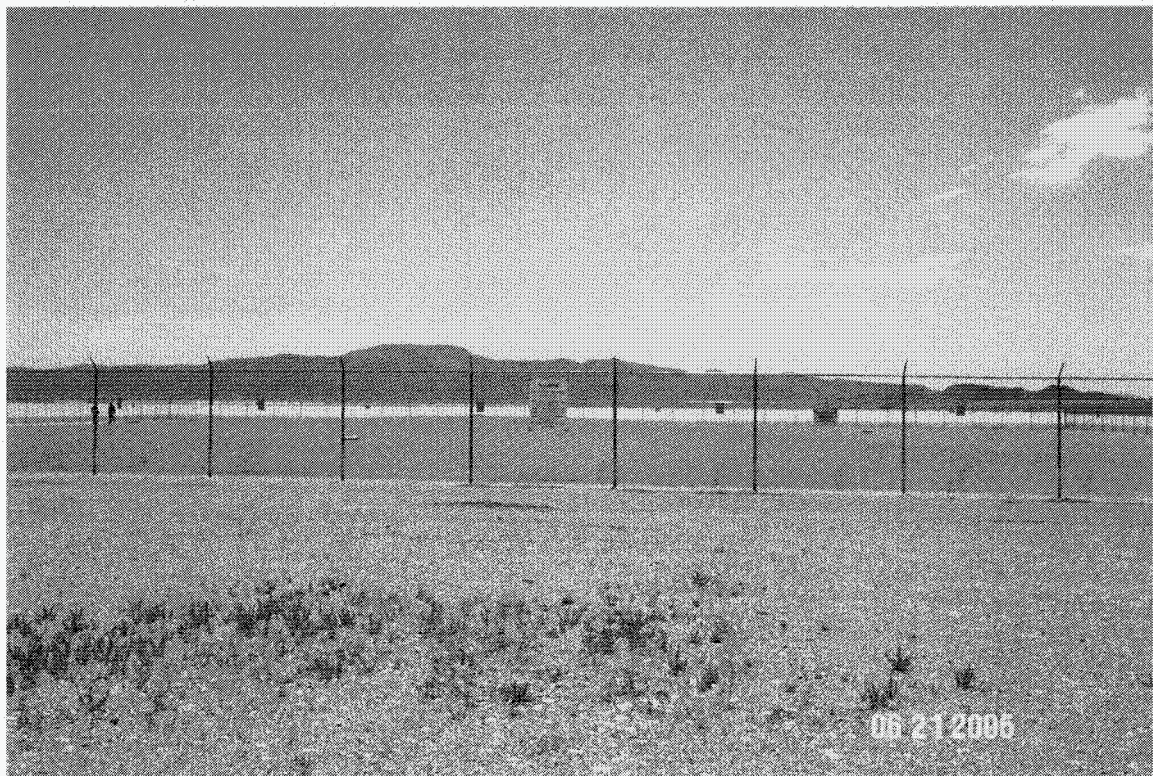
Photograph 7: Inside unit looking south, 03/21/2005



Photograph 8: Inside unit looking west, 03/21/2005



Photograph 9: Outside unit looking north, 06/21/2005



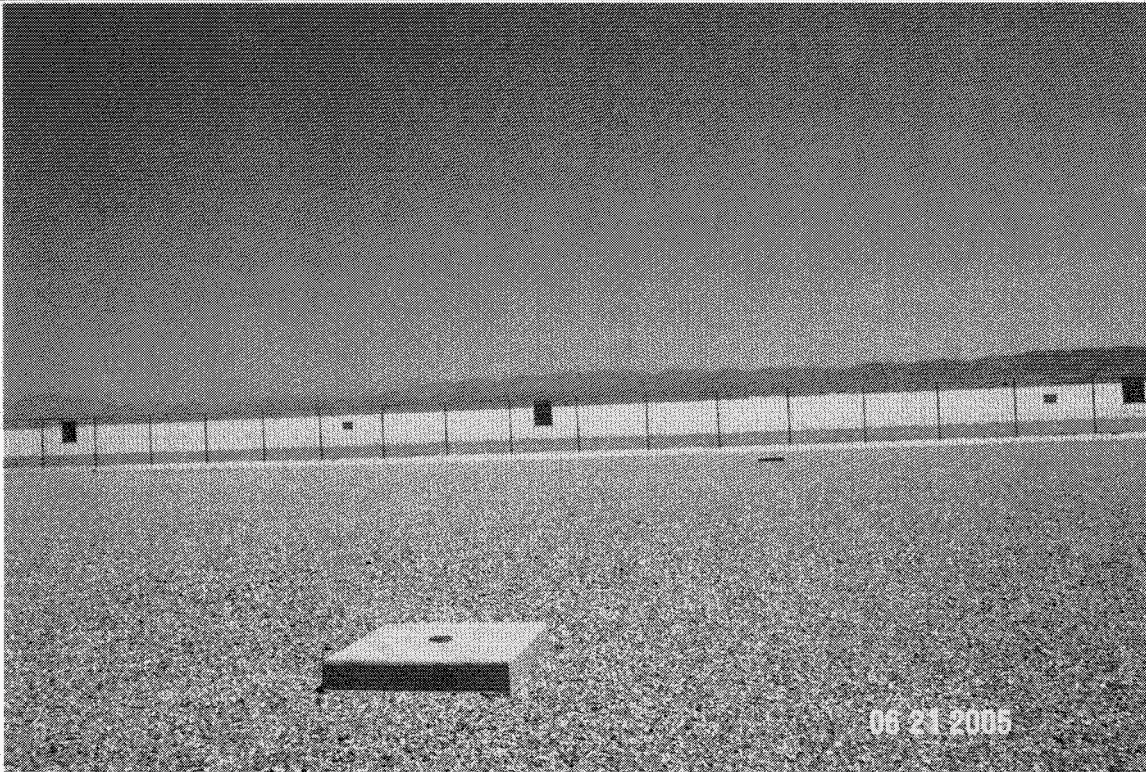
Photograph 10: Outside unit looking east, 06/21/2005



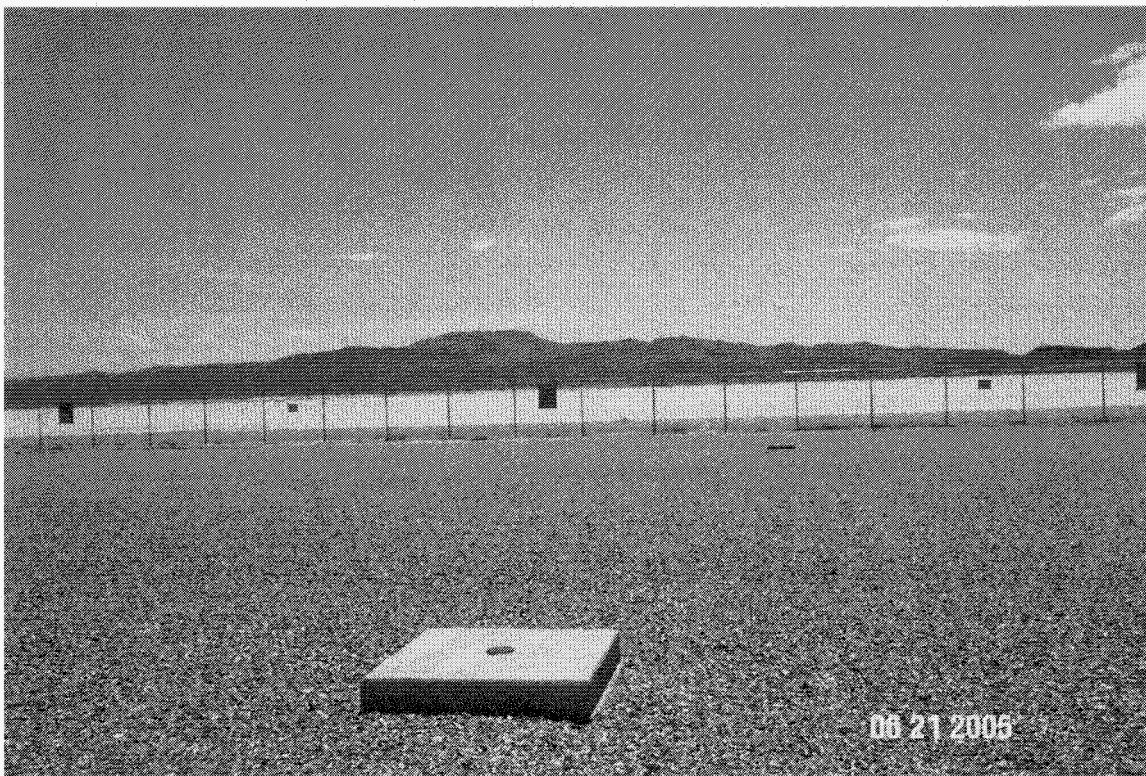
Photograph 11: Outside unit looking south, 06/21/2005



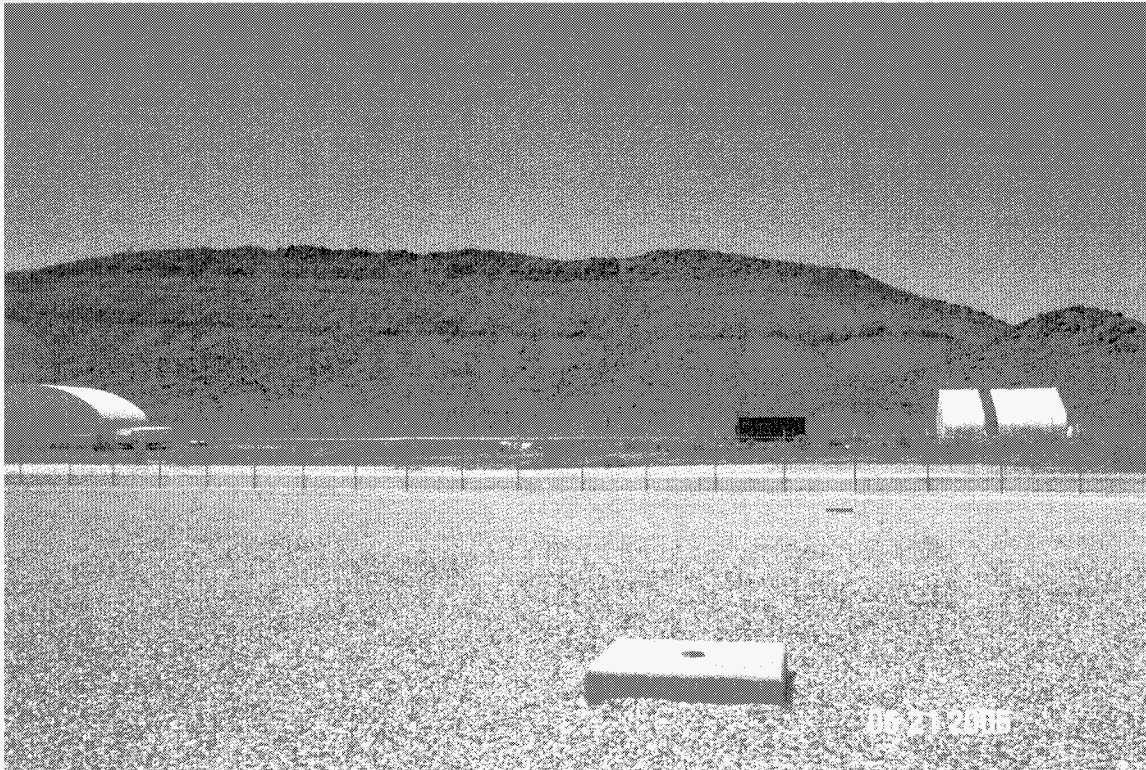
Photograph 12: Outside unit looking west, 06/21/2005



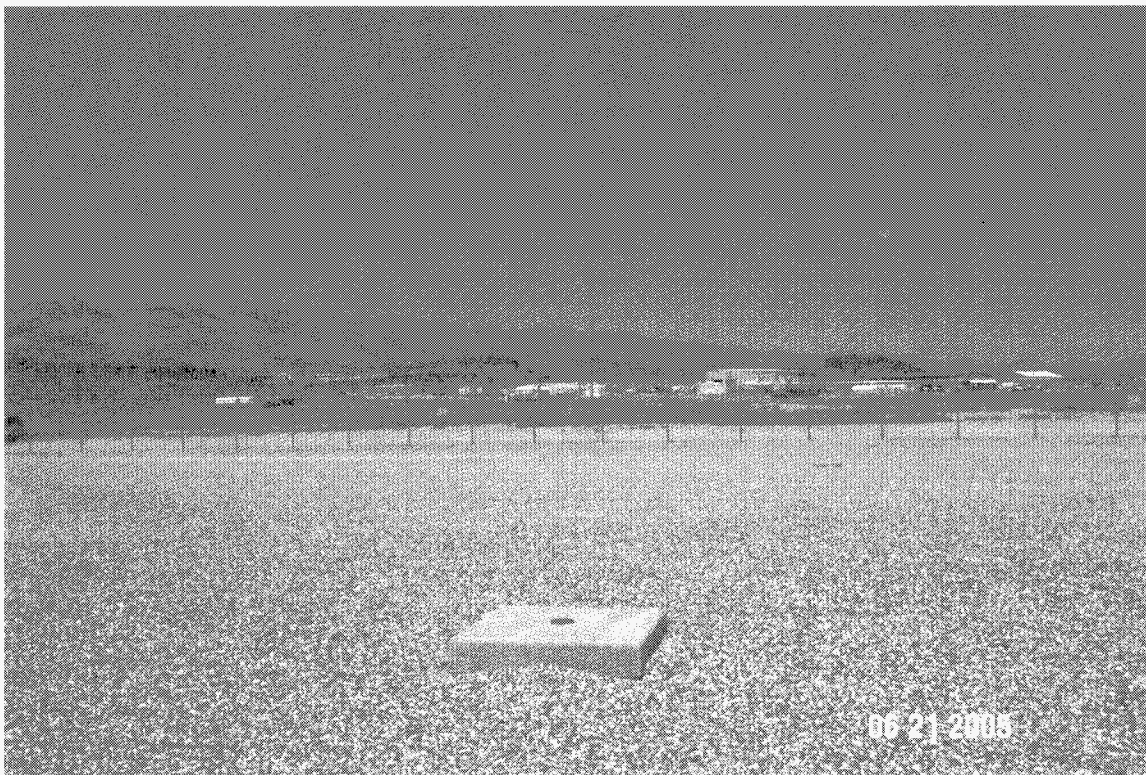
Photograph 13: Inside unit looking north, 06/21/2005



Photograph 14: Inside unit looking east, 06/21/2005



Photograph 15: Inside unit looking south, 06/21/2005



Photograph 16: Inside unit looking west, 06/21/2005



Photograph 17: Outside unit looking north, 09/27/2005



Photograph 18: Outside unit looking east, 09/27/2005



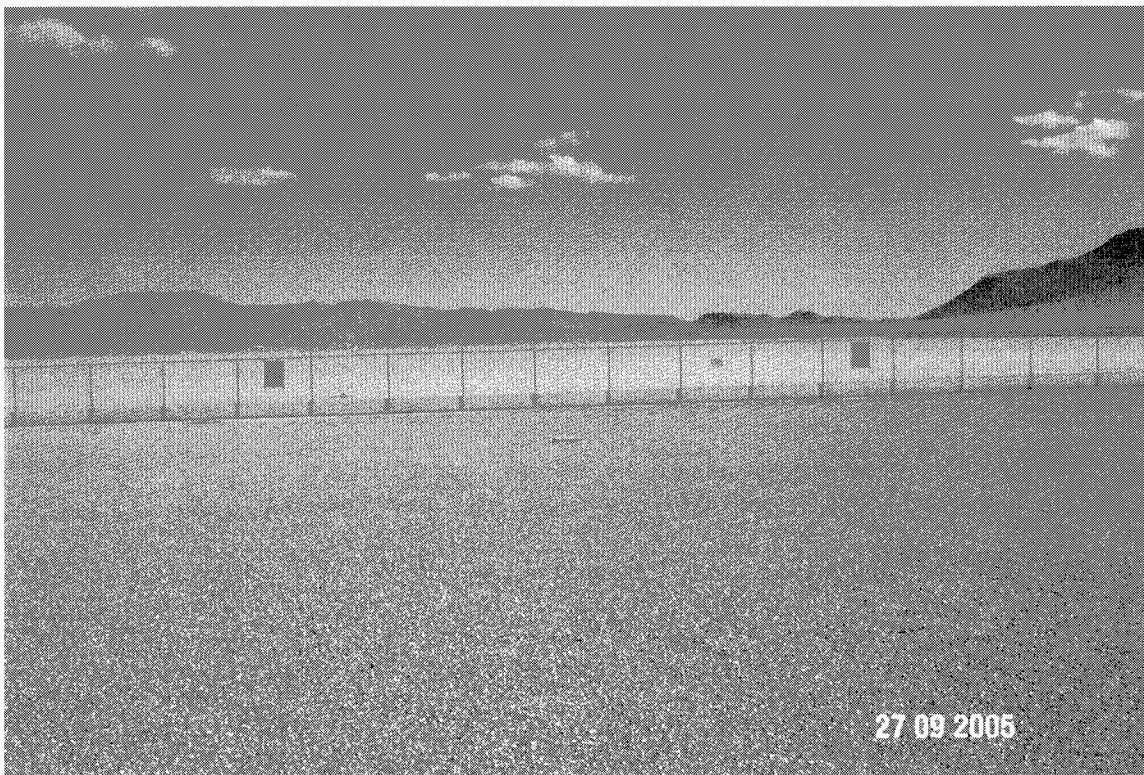
Photograph 19: Outside unit looking south, 09/27/2005



Photograph 20: Outside unit looking west, 09/27/2005



Photograph 21: Inside unit looking north, 09/27/2005



Photograph 22: Inside unit looking east, 09/27/2005



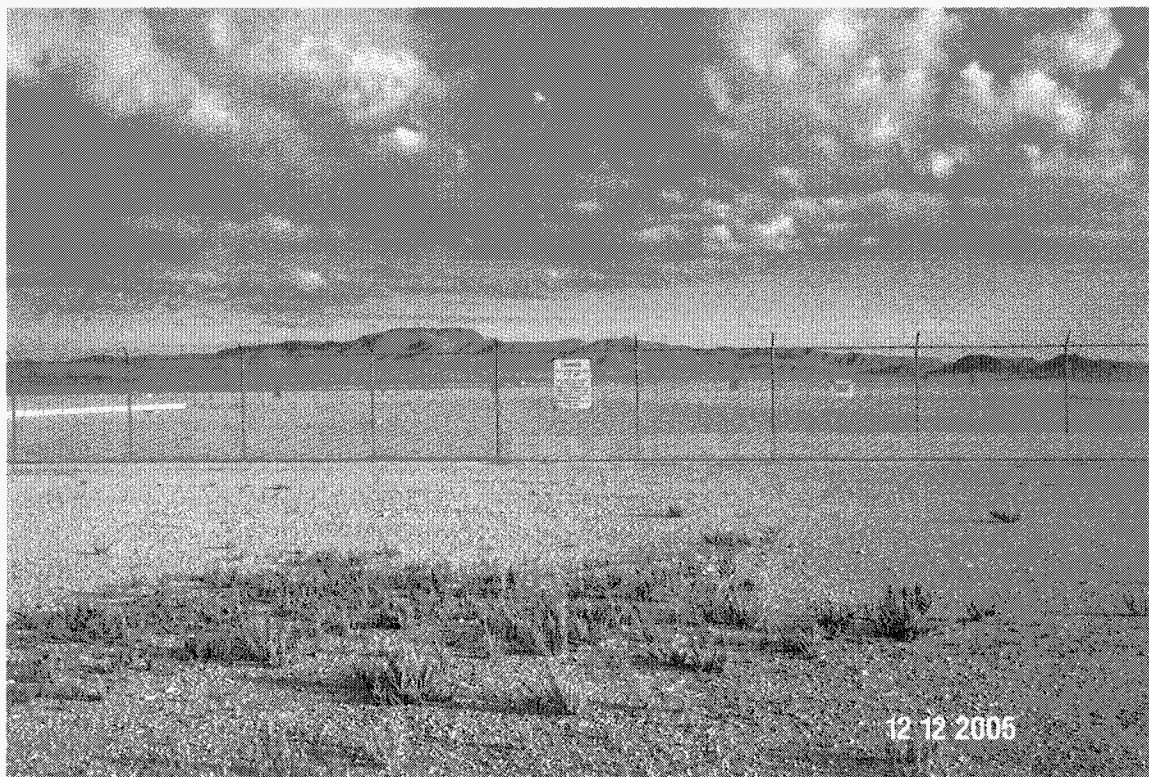
Photograph 23: Inside unit looking south, 09/27/2005



Photograph 24: Inside unit looking west, 09/27/2005



Photograph 25: Outside unit looking north, 12/12/2005



Photograph 26: Outside unit looking east, 12/12/2005



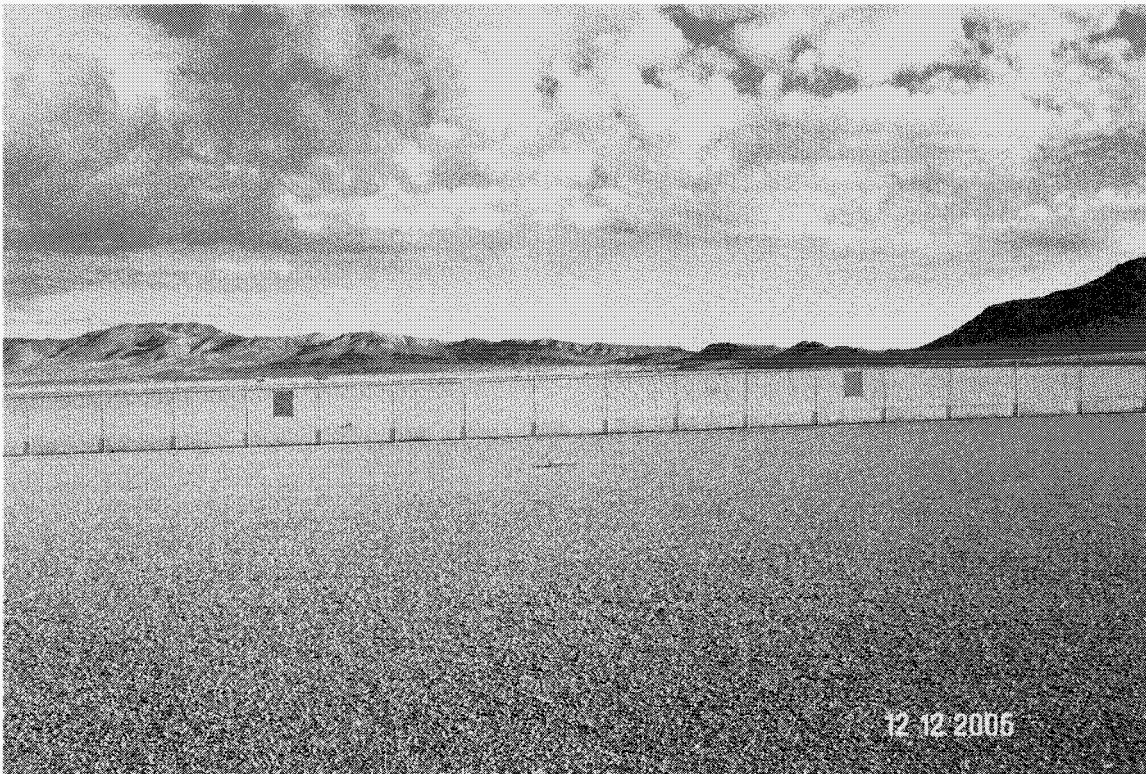
Photograph 27: Outside unit looking south, 12/12/2005



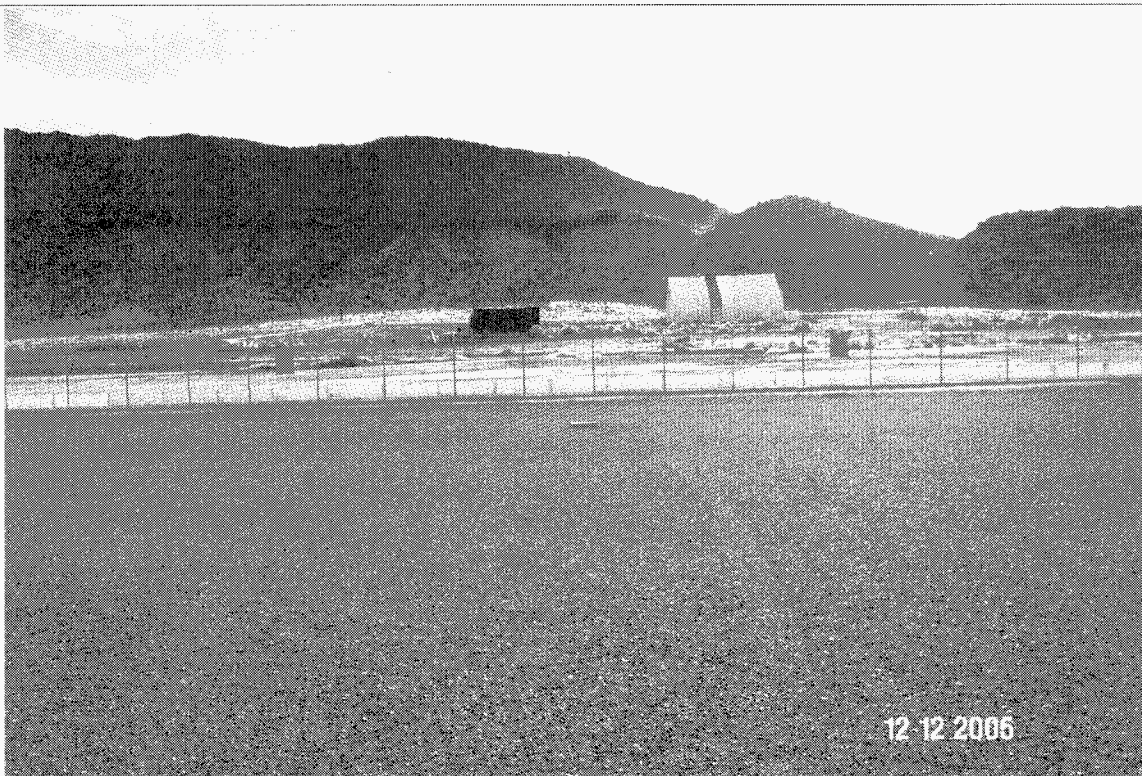
Photograph 28: Outside unit looking west, 12/12/2005



Photograph 29: Inside unit looking north, 12/12/2005



Photograph 30: Inside unit looking east, 12/12/2005



Photograph 31: Inside unit looking south, 12/12/2005



Photograph 32: Inside unit looking west, 12/12/2005

APPENDIX C

PRECIPITATION RECORDS

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03/03/05	YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)																											
	February 01 - 28, 2005																											
Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total			
1																									0.00			
2																									0.00			
3																									0.00			
4																									0.00			
5																									0.00			
6																									0.00			
7																									0.00			
8																									0.00			
9																									0.00			
10																									0.00			
11							0.01	0.05	0.03					0.05	0.09	0.05	0.02	0.02				0.01	0.01		0.34			
12	0.03	0.03																							0.06			
13																									0.00			
14																									0.00			
15																									0.00			
16																									0.00			
17																									0.00			
18									0.01		0.02	0.07	0.12	0.07	0.03	0.05	0.03	0.05	0.07						0.52			
19	0.01	0.02	0.01								0.01	0.01	0.01		0.01	0.05	0.02	0.03							0.18			
20								0.01							0.01										0.02			
21		0.01	0.02	0.05	0.06	0.03		0.04	0.04	0.04	0.04	0.03	0.02	0.06	0.05	0.02	0.02	0.04	0.03	0.01		0.02	0.01	0.02	0.66			
22		0.01		0.01	0.02	0.02	0.01	0.01	0.01							0.02	0.02	0.02	0.07	0.03	0.03		0.01		0.29			
23				0.01	0.07	0.02					0.07			0.01	0.01		0.07								0.26			
24																									0.00			
25																									0.00			
26																									0.00			
27																									0.00			
28																									0.00			
29																									0.00			
30																									0.00			
31																									0.00			
Monthly	Total																								2.33			
Data Tabulated By:																												
Data Quality Control:																												
Certified By:																												



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232 Energy Way
N. Las Vegas, NV 89030
702-295-1263


Raymond D. Dennis 03/03/2005
Raymond D. Dennis 03/03/2005
Raymond D. Dennis 03-03-2005

04/01/05		YUCCA DRY LAKE (JCC) HOURLY PRECIPITATION SUMMARY (Inches)																							
		March 01 - 31, 2005																							
Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																					0.05	0.05			0.10
25																									0.00
26																									0.00
27																									0.00
28													0.06	0.04											0.10
29																									0.00
30																									0.00
31																									0.00
Monthly Total																									0.20
Data Tabulated By:	Raymond D. Dennis 04/04/05																								
Data Quality Control:	Raymond D. Dennis 04/04/05																								
Certified By:	Raymond D. Dennis 04/04/05																								

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05/06/05		YUCCA DRY LAKE (UCG) HOURLY PRECIPITATION SUMMARY (Inches)																								
		April 01 - 30, 2005																								
Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total	
1																									0.00	
2																									0.00	
3																									0.00	
4							0.02																		0.02	
5																									0.00	
6																									0.00	
7																									0.00	
8																				0.02	0.14	0.12	0.01		0.29	
9																									0.00	
10																									0.00	
11																									0.00	
12																									0.00	
13																									0.00	
14																									0.00	
15																									0.00	
16																									0.00	
17																									0.00	
18																									0.00	
19																									0.00	
20																									0.00	
21																									0.00	
22																									0.00	
23																									0.00	
24				0.13	0.01	0.01	0.02																		0.17	
25																									0.00	
26																									0.00	
27																									0.00	
28								0.01	0.01					0.14	0.01	0.04	0.01	0.05	0.01						0.28	
29																									0.00	
30																									0.00	
31																									0.00	
Monthly Total																									0.76	
Data Tabulated By:	Raymond D. Dennis 05/06/05																								ARL/SORD	
Data Quality Control:	Raymond D. Dennis 05/06/05																								232 Energy Way	
Certified By:	Raymond D. Dennis 05/06/2005																								N. Las Vegas, NV 89030	
																									702-295-1283	



YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)																									
May 01 - 31, 2005																									
Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
31																									0.00
Monthly Total																									0.24
Data Tabulated By: <i>W. Wood</i> 6-3-05																									
Data Quality Control: <i>Raymond E. Dunning</i> 06/03/05																									
Certified By: <i>Donna M. G. Smith</i> 06/03/05																									
<div>ARL/SORD 232 Energy Way N. Las Vegas, NV 89030 702-295-1263</div>																									



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702-295-1263


Data Tabulated By: *W. Ward* 6-3-05

Data Quality Control: *Raymond E. Dennis* 06/03/05

Certified By: *Raymond E. Dennis* 06/03/2005

[illegible]

08/02/05		YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)																								
		July 01 - 31, 2005																								
Day/Hour		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																										0.00
2																										0.00
3																										0.00
4																										0.00
5																										0.00
6																										0.00
7																										0.00
8																										0.00
9																										0.00
10																										0.00
11																										0.00
12																										0.00
13																										0.00
14																										0.00
15																										0.00
16																										0.00
17																										0.00
18																										0.00
19																										0.00
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21																										0.00
22																										0.00
23																										0.00
24																										0.00
25																										0.00
26																										0.00
27																										0.00
28																										0.00
29																										0.00
30																										0.00
31																										0.00
Monthly Total																										0.97
Data Tabulated By:																										
Data Quality Control:																										
Certified By:																										



ARL/SORD
232 Energy Way
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702-285-1263

08/02/05
08/02/05
08/02/05



Raymond M. Darni 08/04/05
Raymond M. Darni 08/04/05
Raymond M. Darni 08/04/05

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 702-295-1263

09/06/05		YUCCA DRY LAKE (UGG) HOURLY PRECIPITATION SUMMARY (Inches)																							
		August 01 - 31, 2005																							
Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																					0.02				0.02
6																									0.00
7													0.09	0.01	0.03										0.03
8																									0.11
9																									0.00
10																									0.00
11																									0.00
12																									0.00
13																									0.00
14												0.03						0.02							0.05
15																									0.00
16									0.03																0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
31																									0.00
Monthly Total																									0.24
Data Tabulated By:	Raymond D. Dennis																							09/06/05	
Data Quality Control:	Raymond D. Dennis																							09/06/05	
Certified By:	D.C. Smith																							09-06-2005	
																								ARL/SORD	
																								232 Energy Way	
																								N. Las Vegas, NV 89030	
																								702-295-1263	



[illegible]

11/03/05	YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)																													
	October 01 - 31, 2005																													
Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total					
1																									0.00					
2																									0.00					
3																									0.00					
4																									0.00					
5																									0.00					
6																									0.00					
7																									0.00					
8																									0.00					
9																									0.06					
10																									0.00					
11																									0.00					
12																									0.00					
13																									0.00					
14																									0.00					
15																									0.00					
16																									0.00					
17																									0.00					
18	0.01	0.01	0.01	0.01	0.01	0.01									0.06	0.01				0.01	0.05	0.02	0.02	0.12	0.29					
19								0.05	0.10	0.01	0.01	0.01		0.01	0.01	0.04									0.29					
20																									0.00					
21																									0.00					
22																									0.00					
23																									0.00					
24																									0.00					
25																									0.00					
26																									0.00					
27																									0.00					
28																									0.00					
29																									0.00					
30																									0.00					
Monthly																														
Total																														
Data Tabulated By:	Raymond W. Dennis 11/03/2005																													
Data Quality Control:	Raymond W. Dennis 11/03/2005																													
Certified By:	Raymond W. Dennis 11/03/2005																													



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12/05/05		YUCCA DRY LAKE (UCC) HOURLY PRECIPITATION SUMMARY (Inches)																							
		November 01 - 30, 2005																							
Day/Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									0.00
2																									0.00
3																									0.00
4																									0.00
5																									0.00
6																									0.00
7																									0.00
8																									0.00
9																									0.00
10																									0.00
11	0.08	0.02																					0.12	0.10	0.22
12																									0.10
13																									0.00
14																									0.00
15																									0.00
16																									0.00
17																									0.00
18																									0.00
19																									0.00
20																									0.00
21																									0.00
22																									0.00
23																									0.00
24																									0.00
25																									0.00
26																									0.00
27																									0.00
28																									0.00
29																									0.00
30																									0.00
Monthly Total																									0.32

Data Tabulated By: *M. Wood* 12-05-05

Data Quality Control: *Raymond O. Darni* 12/05/2005

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Data Quality Control:	Raymond V. Danni	12/05/2005
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